

General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

(NASA-TM-84998) THE HARD X-RAY ECST
SPECTROMETER EVENT LISTING 1980, 1981 AND
1982 (NASA) 143 p HC A07/PF A01 CSCI 03B

N83-24455

Unclas
G3/92 11602



Technical Memorandum 84998

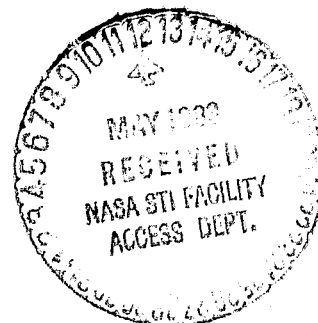
The Hard X-Ray Burst Spectrometer Event Listing 1980, 1981 and 1982

Brian R. Dennis, Kenneth J. Frost, Larry E. Orwig,
Alan Kiplinger, Harold E. Dennis,
Bernard R. Gibson, G. Shelby Kennard, and
A. Kimberley Tolbert

MARCH 1983

National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, Maryland 20771



The Hard X-Ray Burst Spectrometer Event Listing
1980, 1981 and 1982

Brian R. Dennis, Kenneth J. Frost and Larry E. Orwig

Laboratory for Astronomy and Solar Physics
Code 684, Goddard Space Flight Center
Greenbelt, MD. 20771

Alan Kiplinger

Applied Research Corporation
Annapolis, MD.

Harold E. Dennis, Bernard R. Gibson, G. Shelby Kennard
and
A. Kimberley Tolbert

Computer Sciences Corporation
Silver Spring, MD.

April 1983

The Hard X-Ray Burst Spectrometer Event Listing

1. Introduction

This event listing is a comprehensive reference for the hard X-ray bursts detected with the Hard X-Ray Burst Spectrometer (HXRBS) on the Solar Maximum Mission (SMM) from the time of launch on February 14, 1980 to March, 1983. It is a revised and updated version of the previous HXRBS Event Listing issued as NASA Technical Memorandum 83925 in April 1982. This document completely supercedes that earlier listing. An additional table after the main listing gives the largest events detected with peak counting rates greater than 10,000 counts s^{-1} .

Over 6300 events were detected during the three years of operation covered by this listing. Histograms of the numbers of events recorded each day in 1980, 1981 and 1982 are shown in Figure 1. They reflect the changing solar activity. Many of the events detected in 1980 are also included in the Solar Maximum Mission Event Listing (Pryor et al., 1981), and the reader is referred to that catalog for more extensive data on those events. Nearly all of the events in this listing are solar flares. Perhaps ten are non-solar gamma-ray bursts and ~ 180 probably resulted from passage through regions of trapped charged particles.

The duty cycle for the detection of solar flares was about 60% as a result of the circular SMM orbit with an altitude of 500 km and an inclination of 33°. The orbital period is 95 minutes with 60-65 minutes in the sun and the remainder behind the earth. On 7 or 8 orbits per day, 5 to 30 minutes of data are lost as the satellite passes through the high charged-particle fluxes in the South Atlantic Anomaly and the HXRBS high voltage power supplies are commanded off.

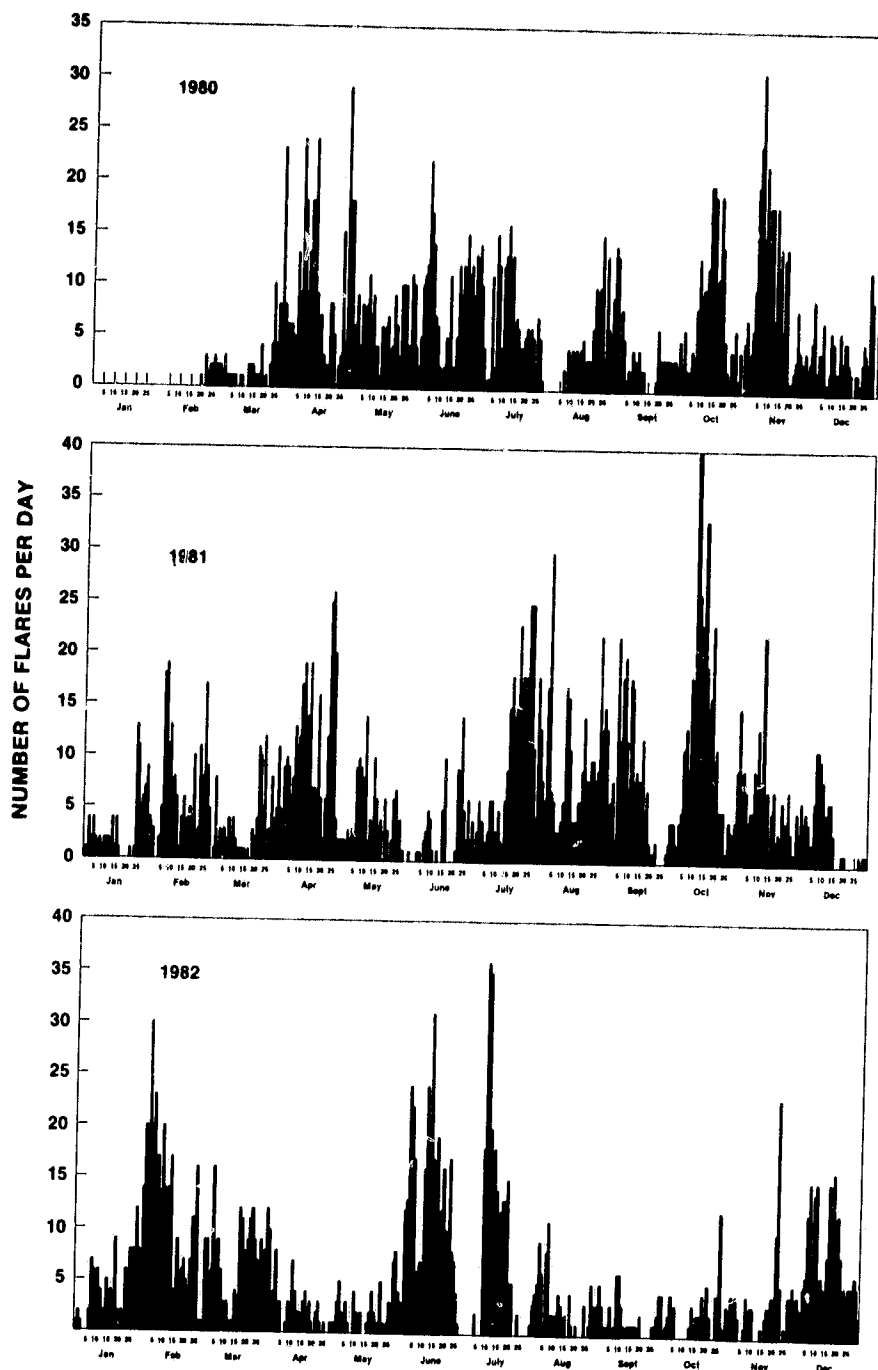


FIGURE 1: The number of flares observed each day with the HXRBS during 1980, 1981, and 1982. The numbers may differ slightly from the number of events in the listing since only flares discovered within 24 hours of their occurrence are included in this plot.

The HXRBS was turned off occasionally for longer intervals as a result of satellite difficulties. The two longest intervals were July 29 at 2100 to August 1 at 1500 UT and December 22 at 1800 to the 23 at 2000, both in 1980. All other off times were less than 24 hours in duration.

2. Instrumentation and Data Collection

The HXRBS has been described in detail by Orwig et al. (1980), and the reader is referred to that paper for a description of the X-ray detector and its various modes of operation. Briefly, the X-ray detector is an actively-shielded CsI(Na) scintillation crystal with a sensitive area of 71 cm^2 and a circular field of view with a 40° FWHM. Thus, the whole sun is observed with no spatial information. With such a wide field of view, even the failure of the SMM fine pointing capability on November 25, 1980, did not seriously degrade the HXRBS flare observations. After this time the detector axis drifted as much as 10° from the sun but the only effect on the solar observations was a reduction in sensitive area of less than 25%.

The basic scientific data from the HXRBS consists of the counting rate recorded every 128 ms in each of 15 pulse-height channels. In-orbit calibration data showed that these channels covered the energy-loss range from 25 to 440 keV immediately after launch and then drifted slowly to higher energies since that time. This gradual change in range is documented in Table 1 where the best estimates of the energies of the channel edges are given for the 15th of each month from launch through 1982 and the predicted values through 1983. Note that the channel edges are significantly different from those given by Orwig et al. (1980).

In addition to these spectral data, an on-board circulating 32K-word memory stored count-rate data for the bigger flares with finer time resolution. The

TABLE 1

ORIGINAL PAGE 11
OF POOR QUALITY

The energy loss in the central detector corresponding to the edges of the 15 pulse-height channels of the HXRBS on the fifteenth day of each month from February, 1980 to December, 1983.

| CHANNEL # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|-----------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1980 | | | | | | | | | | | | | | | |
| FEBRUARY | 25.0 | 29.2 | 49.4 | 70.2 | 91.7 | 113.6 | 135.6 | 158.9 | 183.0 | 208.9 | 234.4 | 261.1 | 289.9 | 318.7 | 348.3 |
| MARCH | 25.9 | 30.4 | 51.3 | 72.9 | 95.2 | 117.9 | 140.8 | 165.0 | 190.0 | 216.9 | 243.3 | 271.1 | 301.0 | 330.9 | 362.3 |
| APRIL | 26.6 | 31.2 | 52.7 | 74.9 | 97.8 | 121.1 | 144.6 | 169.4 | 195.1 | 222.8 | 249.9 | 278.4 | 309.1 | 339.8 | 372.1 |
| MAY | 27.2 | 31.8 | 53.7 | 76.3 | 99.6 | 123.5 | 147.4 | 172.7 | 198.9 | 227.1 | 254.7 | 283.8 | 315.0 | 346.4 | 379.3 |
| JUNE | 27.6 | 32.3 | 54.5 | 77.5 | 101.2 | 125.4 | 149.7 | 175.5 | 202.1 | 230.7 | 258.8 | 288.3 | 320.1 | 351.9 | 385.2 |
| JULY | 27.9 | 32.7 | 55.2 | 78.5 | 102.5 | 127.0 | 151.6 | 177.7 | 204.6 | 233.7 | 262.1 | 292.0 | 324.2 | 356.4 | 390.2 |
| AUGUST | 28.3 | 33.1 | 55.9 | 79.4 | 103.7 | 128.5 | 153.4 | 179.7 | 206.9 | 236.3 | 265.1 | 295.3 | 327.8 | 360.4 | 394.6 |
| SEPTEMBER | 28.5 | 33.4 | 56.4 | 80.2 | 104.7 | 129.7 | 154.9 | 181.5 | 209.0 | 238.6 | 267.7 | 298.2 | 331.0 | 364.0 | 398.5 |
| OCTOBER | 28.8 | 33.7 | 56.9 | 80.9 | 105.6 | 130.8 | 156.2 | 183.0 | 210.8 | 240.7 | 269.9 | 300.7 | 333.8 | 367.1 | 401.9 |
| NOVEMBER | 29.0 | 33.9 | 57.3 | 81.5 | 106.4 | 131.9 | 157.4 | 184.5 | 212.4 | 242.6 | 272.1 | 303.1 | 336.5 | 369.9 | 405.1 |
| DECEMBER | 29.2 | 34.2 | 57.7 | 82.1 | 107.2 | 132.8 | 158.5 | 185.7 | 213.9 | 244.2 | 274.0 | 305.2 | 338.8 | 372.5 | 407.9 |
| 1981 | | | | | | | | | | | | | | | |
| JANUARY | 29.4 | 34.4 | 58.1 | 82.6 | 107.9 | 133.6 | 159.5 | 187.0 | 215.3 | 245.8 | 275.7 | 307.2 | 341.0 | 374.9 | 410.5 |
| FEBRUARY | 29.6 | 34.6 | 58.5 | 83.1 | 108.5 | 134.5 | 160.5 | 188.1 | 216.6 | 247.3 | 277.4 | 309.1 | 343.1 | 377.2 | 413.0 |
| MARCH | 29.7 | 34.8 | 58.8 | 83.5 | 109.1 | 135.1 | 161.3 | 189.0 | 217.7 | 248.6 | 278.8 | 310.6 | 344.8 | 379.1 | 415.1 |
| APRIL | 29.9 | 35.0 | 59.1 | 84.0 | 109.6 | 135.8 | 162.2 | 190.0 | 218.8 | 249.9 | 280.3 | 312.2 | 346.6 | 381.1 | 417.3 |
| MAY | 30.0 | 35.1 | 59.3 | 84.4 | 110.2 | 136.5 | 162.9 | 190.9 | 219.9 | 251.1 | 281.6 | 313.7 | 348.3 | 382.9 | 419.3 |
| JUNE | 30.2 | 35.3 | 59.6 | 84.7 | 110.7 | 137.1 | 163.7 | 191.8 | 220.9 | 252.2 | 282.9 | 315.2 | 349.9 | 384.7 | 421.2 |
| JULY | 30.3 | 35.4 | 59.9 | 85.1 | 111.1 | 137.7 | 164.4 | 192.6 | 221.8 | 253.3 | 284.1 | 316.5 | 351.4 | 386.3 | 423.0 |
| AUGUST | 30.4 | 35.6 | 60.1 | 85.5 | 111.6 | 138.3 | 165.1 | 193.4 | 222.7 | 254.3 | 285.3 | 317.8 | 352.8 | 387.9 | 424.7 |
| SEPTEMBER | 30.5 | 35.7 | 60.4 | 85.8 | 112.0 | 138.8 | 165.7 | 194.2 | 223.6 | 255.3 | 286.4 | 319.1 | 354.2 | 389.4 | 426.4 |
| OCTOBER | 30.6 | 35.8 | 60.6 | 86.1 | 112.4 | 139.3 | 166.3 | 194.9 | 224.4 | 256.3 | 287.4 | 320.2 | 355.5 | 390.8 | 427.9 |
| NOVEMBER | 30.8 | 36.0 | 60.8 | 86.4 | 112.8 | 139.8 | 166.9 | 195.6 | 225.2 | 257.2 | 288.5 | 321.4 | 356.8 | 392.2 | 429.5 |
| DECEMBER | 30.9 | 36.1 | 61.0 | 86.7 | 113.2 | 140.3 | 167.4 | 196.2 | 226.0 | 258.0 | 289.4 | 322.4 | 357.9 | 393.5 | 430.9 |
| 1982 | | | | | | | | | | | | | | | |
| JANUARY | 31.0 | 36.2 | 61.2 | 87.0 | 113.6 | 140.7 | 168.0 | 196.9 | 226.7 | 258.9 | 290.4 | 323.5 | 359.1 | 394.8 | 432.3 |
| FEBRUARY | 31.1 | 36.3 | 61.4 | 87.3 | 113.9 | 141.2 | 168.5 | 197.5 | 227.4 | 259.7 | 291.3 | 324.5 | 360.2 | 396.1 | 433.6 |
| MARCH | 31.1 | 36.4 | 61.5 | 87.5 | 114.3 | 141.6 | 169.0 | 198.0 | 228.0 | 260.4 | 292.1 | 325.4 | 361.2 | 397.1 | 434.8 |
| APRIL | 31.2 | 36.5 | 61.7 | 87.7 | 114.6 | 142.0 | 169.5 | 198.6 | 228.7 | 261.1 | 292.9 | 326.3 | 362.3 | 398.3 | 436.1 |
| MAY | 31.3 | 36.6 | 61.9 | 88.0 | 114.9 | 142.4 | 169.9 | 199.1 | 229.3 | 261.8 | 293.7 | 327.2 | 363.2 | 399.4 | 437.3 |
| JUNE | 31.4 | 36.7 | 62.1 | 88.2 | 115.2 | 142.7 | 170.4 | 199.7 | 229.9 | 262.6 | 294.5 | 328.1 | 364.2 | 400.5 | 438.5 |
| JULY | 31.5 | 36.8 | 62.2 | 88.4 | 115.5 | 143.1 | 170.8 | 200.2 | 230.5 | 263.2 | 295.3 | 328.9 | 365.2 | 401.5 | 439.6 |
| AUGUST | 31.6 | 36.9 | 62.4 | 88.7 | 115.8 | 143.5 | 171.3 | 200.7 | 231.1 | 263.9 | 296.0 | 329.8 | 366.1 | 402.5 | 440.7 |
| SEPTEMBER | 31.6 | 37.0 | 62.5 | 88.9 | 116.1 | 143.8 | 171.7 | 201.2 | 231.7 | 264.5 | 296.7 | 330.6 | 367.0 | 403.5 | 441.8 |
| OCTOBER | 31.7 | 37.1 | 62.7 | 89.1 | 116.3 | 144.2 | 172.1 | 201.6 | 232.2 | 265.1 | 297.4 | 331.3 | 367.8 | 404.4 | 442.8 |
| NOVEMBER | 31.8 | 37.2 | 62.8 | 89.3 | 116.6 | 144.5 | 172.5 | 202.1 | 232.7 | 265.8 | 298.1 | 332.1 | 368.7 | 405.3 | 443.8 |
| DECEMBER | 31.9 | 37.3 | 63.0 | 89.5 | 116.9 | 144.8 | 172.8 | 202.5 | 233.2 | 266.3 | 298.7 | 332.8 | 369.5 | 406.2 | 444.8 |
| 1983 | | | | | | | | | | | | | | | |
| JANUARY | 31.9 | 37.3 | 63.1 | 89.7 | 117.1 | 145.1 | 173.2 | 203.0 | 233.7 | 266.9 | 299.4 | 333.5 | 370.3 | 407.1 | 445.7 |
| FEBRUARY | 32.0 | 37.4 | 63.2 | 89.9 | 117.4 | 145.4 | 173.6 | 203.4 | 234.2 | 267.5 | 300.0 | 334.3 | 371.1 | 408.0 | 446.7 |
| MARCH | 32.1 | 37.5 | 63.3 | 90.0 | 117.6 | 145.7 | 173.9 | 203.8 | 234.7 | 268.0 | 300.6 | 334.9 | 371.7 | 408.7 | 447.5 |
| APRIL | 32.1 | 37.6 | 63.5 | 90.2 | 117.8 | 146.0 | 174.3 | 204.2 | 235.2 | 268.5 | 301.2 | 335.6 | 372.5 | 409.5 | 448.4 |
| MAY | 32.2 | 37.6 | 63.6 | 90.4 | 118.0 | 146.3 | 174.6 | 204.6 | 235.6 | 269.0 | 301.8 | 336.2 | 373.2 | 410.3 | 449.3 |
| JUNE | 32.2 | 37.7 | 63.7 | 90.6 | 118.3 | 146.5 | 174.9 | 205.0 | 236.1 | 269.5 | 302.3 | 336.8 | 373.9 | 411.1 | 450.1 |
| JULY | 32.3 | 37.8 | 63.8 | 90.7 | 118.5 | 146.8 | 175.2 | 205.4 | 236.5 | 270.0 | 302.9 | 337.4 | 374.6 | 411.9 | 450.9 |
| AUGUST | 32.4 | 37.8 | 63.9 | 90.9 | 118.7 | 147.1 | 175.6 | 205.7 | 236.9 | 270.5 | 303.4 | 338.1 | 375.3 | 412.6 | 451.8 |
| SEPTEMBER | 32.4 | 37.9 | 64.1 | 91.1 | 118.9 | 147.3 | 175.9 | 206.1 | 237.3 | 271.0 | 304.0 | 338.7 | 375.9 | 413.3 | 452.6 |
| OCTOBER | 32.5 | 38.0 | 64.2 | 91.2 | 119.1 | 147.6 | 176.2 | 206.4 | 237.7 | 271.5 | 304.5 | 339.2 | 376.6 | 414.0 | 453.3 |
| NOVEMBER | 32.5 | 38.0 | 64.3 | 91.4 | 119.3 | 147.8 | 176.5 | 206.8 | 238.1 | 271.9 | 305.0 | 339.8 | 377.2 | 414.7 | 454.1 |
| DECEMBER | 32.6 | 38.1 | 64.4 | 91.5 | 119.5 | 148.1 | 176.8 | 207.1 | 238.5 | 272.4 | 305.5 | 340.4 | 377.8 | 415.4 | 454.8 |

*Several different gain settings were used during March 1981 - see event listing.

number of counts with a pulse-height between the bottom edge of channel 1 and the top edge of channel 15 were recorded in each fine time interval, Δt . From launch to April 1982, Δt was 10 ms and data were obtained for a period of 2 minutes before and 3 minutes after the time during a flare when the counting rate exceeded a trigger level of 400-1000 counts s^{-1} . From April to June 1982 Δt was 1 ms and after June 1982 Δt has been set to 5 ms with a proportionately shorter length of time covered by the data before and after the flare trigger. Data for only one such interval could be stored each satellite day. The absolute time of all the counting rate data is known to an accuracy of a few milliseconds, thus allowing detailed comparisons with other coincident observations.

3. Event Detection

Most of the events in this listing were discovered in the HXRBS data within a day after the observation. An average of about 90% of the SMM data were received at the Experimenters Operations Facility at Goddard Space Flight Center a few hours after data transmission to the various ground stations. This percentage has, on occasion, dropped significantly during 1982. The HXRBS data were stripped from the total bit stream and stored on a large disc capable of holding 24 hours of data. The oldest 10 hours of data on the disc were automatically written onto a magnetic tape (at 800 bpi) every 10 hours and the tapes are kept as archival records. (After December 1980, the OBC words were dropped and the archive tapes contain 18 hours of data). The 24-hour data base was scanned each day for flares by plotting the counting rate in channel 2 as a function of time with 16s time resolution. Other rates from the different parts of the instrument were plotted on the same graph, and hard copies of

these housekeeping plots, one orbit per page, are saved as a permanent record. A typical example of such a plot for one orbit on 1980 November 6 is shown in Figure 2. Two flares can be seen in this plot during the satellite daytime part of the orbit. They are most clearly seen in the channel 2 rate marked 'E' but they are also evident in the other two central detector rates marked A and B. One flare starts at 0626 UT and is HXRBS event #1544 and the other starts at 0647 UT and is HXRBS event #1545. Any significant increase in the channel 2 counting rate above the average background level was examined with finer time resolution and recorded as an event unless it lasted for only one 128 ms interval. Such single-interval spikes are believed to be instrumental in origin and occur a few times per orbit on average. They most probably result from cosmic-ray interactions in the central detector which release so much energy that the anticoincidence electronics fails to completely reject the very large pulses generated. A flare which produces a 10% increase in counting rate lasting for a few seconds can be reliably detected above the ~ 12 counts s^{-1} background rate in channel 2. This corresponds to a detection threshold level of $\sim 10^{-3}$ photons $cm^{-2} s^{-1} keV^{-1}$ at 30 keV.

Once an event has been discovered in this way a standard plot of counting rate versus time was made with the counts in all 15 channels added together. Generally, a time resolution of 1.024s was used for this plot with a time scale of 1 or 2 minutes per inch depending on the duration of the event. Hard copies of these plots are saved as a permanent record; an example is shown in Figure 3.

Each legitimate event is given a number, referred to as the HXRBS event number, that uniquely identifies the burst. The event numbers generally follow a chronological sequence as most events were identified within 24 hours of

SMM/HXRBS

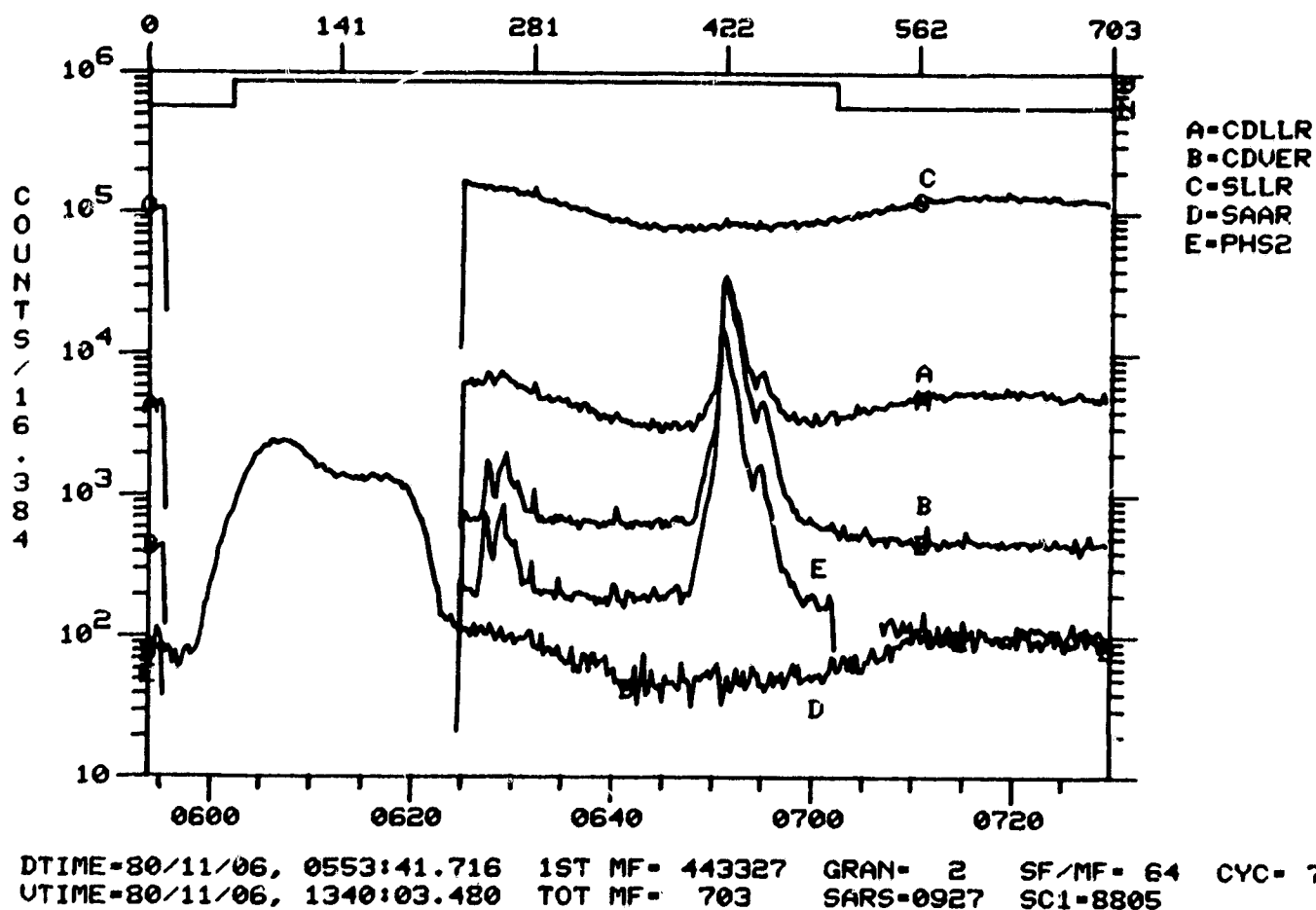
ORIGINAL
OF POOR QUALITY

FIGURE 2: An example of a standard housekeeping plot containing counting rates versus Universal Time for one orbit. The following five counting rates, labelled A through E, are plotted with a time resolution of 16.384 s: A and B are central detector counting rates, C is a shield rate, D is the charged-particle rate, and E is the counting rate of X-ray events in pulse-height analyser channel #2. The double-peaked curve in the plot between 0600 and 0620 UT is the charged-particle rate in the South Atlantic Anomaly, when the high voltages were turned off and the other rates go to zero. The horizontal straight lines at two levels near the top of the plot indicate the day (upper line) and night (lower line) parts of the orbit.

ORIGINAL PAGE
OF POOR QUALITY

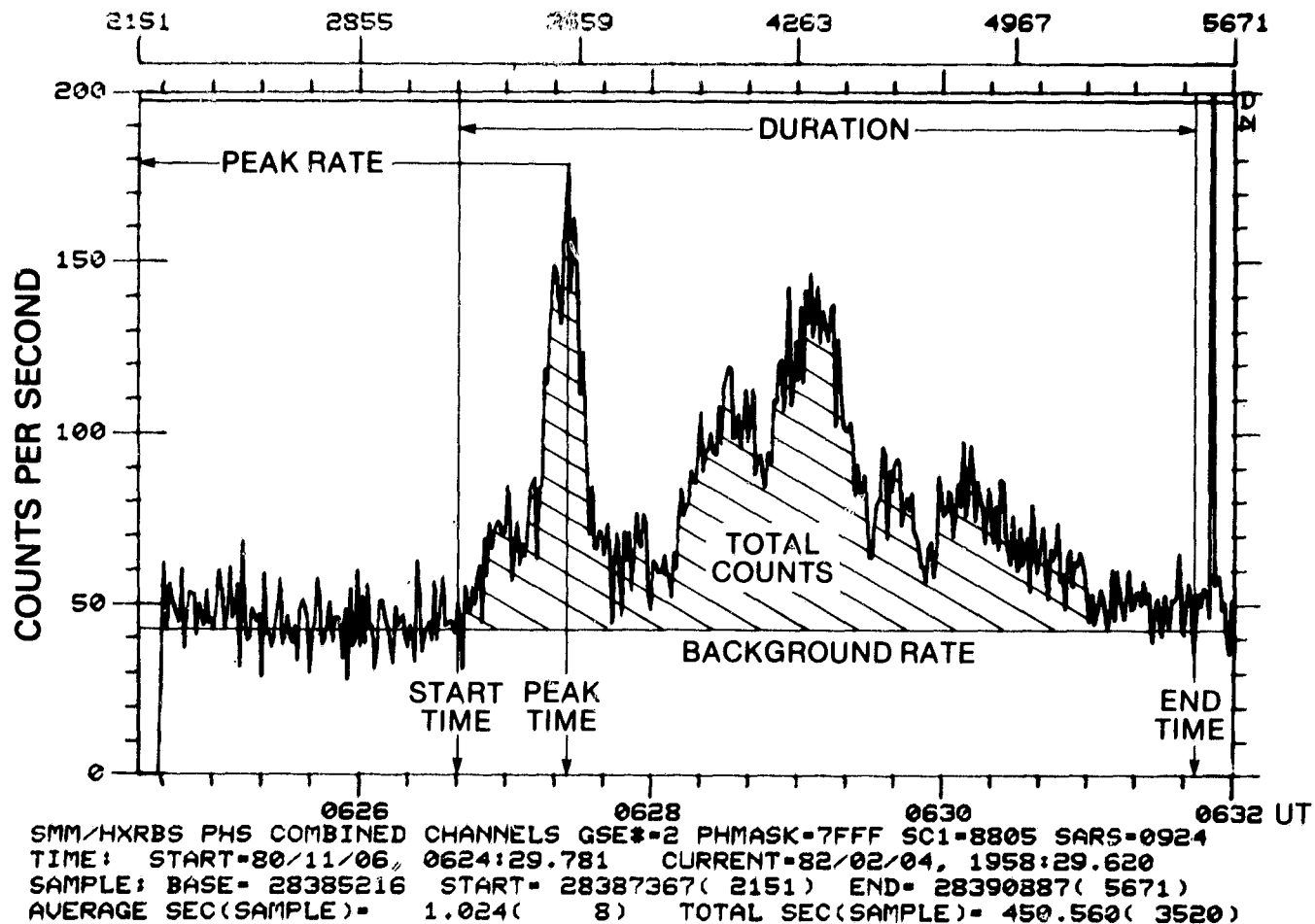


FIGURE 3: A standard plot of a hard X-ray burst (HXRBS event #1544) showing the rate of counts in channels 1 through 15 versus Universal Time. The time resolution is 1.024 s, the time scale is 1 inch per minute, and the counting rate is corrected for instrumental dead time. The start time, peak time, duration, peak rate and total number of counts are indicated as they are determined for inclusion in the event listing.

their occurrence. A few bursts, however, were only discovered several months later upon scanning through the complete data set provided on magnetic tape by the Information Processing Division (IPD) at GSFC. These IPD flares are marked in the listing with the letter "I", and their event numbers are generally out of sequence. A complete search of the IPD tapes has been made up until May 1981 but considerable gaps still exist after that time. Consequently, while this listing includes all events detected in 1980, many more events detected after that time are not included.

4. The Event Listing

The HXRBS event number, the start time, the peak time and the duration are given for every event in the listing. These times are generally accurate to ~ 5 s. The peak counting rate summed over all 15 channels is also listed. This rate was obtained from a rate-versus-time plot with a time resolution of 1.024 s. It is the total rate, as indicated in Figure 3; it is not the rate above the pre-flare background level of ~ 40 counts s^{-1} . The highest channel number showing any increase in rate is also listed to give an idea of the X-ray spectral hardness of the event. This highest channel number is only approximate and is generally recorded as 2,5,10 or 15. The energy losses in the CsI(Na) detection crystal corresponding to these channels can be obtained from Table 1.

For the larger flares, i.e. those with peak rates exceeding 100 counts s^{-1} and/or durations of greater than 200 s, the total number of counts above the preflare background recorded during the flare is also listed. This gives an indication of the overall size of the burst. The data for these larger flares were written to individual files on flare tapes, numbered FTnnn. The tape number

(nnn) and file number are included in the listing for easy access to the data.

The event listing is arranged in chronological order with one line per event. Each column is labelled at the top of each page with the following column headings:

1. HXRBS EVENT# - a number assigned to each flare to uniquely identify it.
An asterisk preceding the event number indicates that a note about that event is included at the end of the listing.
2. DOY - the day of the year in which the flare occurred with January the first as day one.
3. DATE expressed as year/month/day.
4. START TIME expressed as hour minute:second.
5. DURATION of the event in seconds.
6. PEAK RATE in counts per second. This is the total rate in the full energy range covered by the instrument and does not have the preflare background rate subtracted (see Figure 2).
7. TOTAL COUNTS detected by the HXRBS during the flare above the preflare rate (see Figure 2).
8. NOAA REGION #. A more complete listing of these region numbers for the 1980 events is given in the SMM Event Listing (Pryor et al. 1981).
9. MAX. CH.# - the highest channel showing any increase in rate during the flare. See Table 1 for the energy range of each channel.
10. FLARE TAPE #, FILE #- the tape and file numbers identifying the location of the event data on the HXRBS flare tapes.

11. NOTES. The meaning of the letters in this column are as follows:

| | |
|----|--|
| M | Memory data available with < 10 ms time resolution. |
| I | Discovered later, in data provided by the Information Processing Division. |
| SN | Started in spacecraft night. |
| EN | Ended in spacecraft night. |
| IN | Interrupted by spacecraft night. |
| SA | Started when the SMM was in the South Atlantic Anomaly (SAA). |
| ES | Ended when the SMM was in the SAA. |
| IS | Interrupted by the SAA. |
| SG | Started in a data gap. |
| EG | Ended in a data gap. |
| DG | Data gap during event. |
| AX | Probably the result of passage through trapped charged particles. |
| ND | Noisy data. |

A separate table of the largest events detected with peak counting rates greater than $10,000 \text{ counts s}^{-1}$ is included in this document after the main listing. This table is in chronological order and is included for quick reference to the big events.

Acknowledgements

The HXRBS was made possible by the efforts of many people previously acknowledged by Orwig et al. (1980). We are grateful to Tom Chawning, who was primarily responsible for the basic design and implementation of the computer system used for data collection and analysis. The following students contributed significantly to the collection of the data in this flare index: John Bonomo, Kathryn Lesh, Maya Yodh, Bob Hindsley, and Shawna Brooks. We are also grateful to Gloria Wharen for preparing the introduction to this document and to our Sperry-Univac V-77 minicomputer for processing and printing the event listing.

REFERENCES

- Orwig, L.E., Frost, K.J., and Dennis, B.R. 1980, Solar Physics, 65, 25.
- Pryor, L.H., Pierce, M.J., Speich, D.M., Fesq, L.M., Spear, K.A., Nelson, J.J., and McGovern, J.G. 1981, Solar Maximum Mission Event Listing, Internal document, NASA, GSFC.

THE HXRBS EVENT LISTING

2 February 1980 to 11 April 1983

Note that the X-ray counting rate time profiles with 1s resolution are available on microfiche for most of the events in this index. One plot is given for each event showing the total counting rate integrated over the full energy range of the instrument as a function of Universal Time. Copies of these microfiche can be obtained from the authors or from the National Space Science Data Center, Code 601, NASA/GSFC, Greenbelt, MD 20771.

HXRBS EVENT LISTING 83/04/14, 2337:19.400

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOVA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1 | 50 | 80/02/19 | 0746:50 | 0749:35 | 522 | 177 | 20080 | 2287 | | 1, 1 | |
| 2 | 52 | 80/02/21 | 0321:21 | 0322:00 | 77 | 210 | 13967 | 2207 | | 1, 2 | |
| 4 | 52 | 80/02/21 | 0447:03 | 0447:38 | 51 | 67 | | | | 1, 3 | |
| 3 | 52 | 80/02/21 | 1712:40 | 1712:45 | 40 | 65 | | 2287 | | 1, 4 | |
| 5 | 53 | 80/02/22 | 1902:00 | 1904:35 | 180 | 145 | 3817 | 2292 | | | |
| 6 | 55 | 80/02/24 | 0506:44 | 0508:20 | 170 | 184 | | | | 1, 6 | |
| 7 | 55 | 80/02/24 | 0918:10 | 0919:14 | 75 | 99 | | | | 1, 7 | |
| 8 | 56 | 80/02/25 | 1715:20 | 1716:50 | 160 | 68 | | | | 1, 8 | |
| 9 | 56 | 80/02/25 | 2202:20 | 2202:40 | 30 | 78 | | | | 1, 9 | |
| 11 | 57 | 80/02/26 | 0027:05 | 0027:25 | 30 | 242 | | 2294 | | 1, 11 | ES |
| 10 | 57 | 80/02/26 | 0320:50 | 0321:30 | 90 | 88 | | 2296 | | 1, 10 | |
| 12 | 57 | 80/02/26 | 1859:00 | 1900:10 | 160 | 77 | | 2296 | | 1, 12 | |
| 13 | 58 | 80/02/27 | 0338:40 | 0341:50 | 190 | 227 | | 2296 | | 1, 13 | EN |
| 14 | 58 | 80/02/27 | 1303:30 | 1304:30 | 60 | 62 | 705 | | | | |
| 15 | 58 | 80/02/27 | 2238:10 | 2238:15 | 15 | 60 | | | | 1, 15 | |
| 16 | 59 | 80/02/28 | 0116:55 | 0117:00 | 10 | 66 | | | | 1, 16 | |
| 17 | 59 | 80/02/28 | 1412:20 | 1412:27 | 15 | 58 | | | | 2, 1 | |
| 18 | 60 | 80/02/29 | 0733:10 | 0733:46 | 60 | 176 | 3091 | | | 2, 2 | |
| 19 | 62 | 80/03/02 | 0306:48 | 0306:52 | 50 | 84 | | 2314 | | 2, 3 | |
| 20 | 62 | 80/03/02 | 0446:10 | 0446:40 | 100 | 56 | | | | 2, 4 | |
| 21 | 62 | 80/03/02 | 1905:20 | 1905:40 | 45 | 160 | | 2309 | | 2, 5 | |
| 22 | 63 | 80/03/03 | 2050:25 | 2051:30 | 90 | 160 | | | | 2, 6 | |
| 23 | 64 | 80/03/04 | 0121:53 | 0122:02 | 150 | 90 | 1273 | | | 2, 7 | |
| 24 | 65 | 80/03/05 | 2207:10 | 2208:20 | 70 | 55 | 270 | | | 2, 8 | |
| 25 | 65 | 80/03/05 | 2330:40 | 2331:00 | 330 | 99 | 7487 | | | 2, 9 | |
| 26 | 66 | 80/03/06 | 0419:00 | 0421:20 | 420 | 100 | 6370 | | | 2, 10 | |
| 27 | 67 | 80/03/07 | 0507:40 | 0508:25 | 47 | 129 | 1690 | | | 2, 11 | |
| 28 | 69 | 80/03/09 | 0435:50 | 0436:30 | 170 | 65 | 847 | | | 2, 12 | |
| 29 | 70 | 80/03/10 | 2226:20 | 2227:10 | 160 | 62 | 510 | 2326 | | 2, 13 | |
| 4271 | 73 | 80/03/13 | 1445:20 | 1445:45 | 220 | 138 | 15000 | | 5 | 143, 13 | I |
| 31 | 73 | 80/03/13 | 2158:00 | 2201:20 | 540 | 105 | 13800 | | | 2, 15 | AX |
| 32 | 74 | 80/03/14 | 1113:50 | 1114:00 | 50 | 71 | 100 | | | 3, 1 | |
| 33 | 74 | 80/03/14 | 2156:10 | 2158:00 | 660 | 119 | | | | 3, 2 | AX |
| 4272 | 75 | 80/03/15 | 2017:35 | 2020:15 | 235 | 76 | | | 5 | 143, 14 | I |
| 34 | 75 | 80/03/15 | 2155:16 | 2156:57 | 540 | 120 | 16114 | | | 3, 3 | AX |
| 36 | 76 | 80/03/16 | 2016:09 | 2018:47 | 540 | 80 | | | | 3, 5 | AX |
| 37 | 77 | 80/03/17 | 1445:47 | 1446:20 | 60 | 95 | 741 | | | 3, 6 | |
| 38 | 78 | 80/03/18 | 2324:30 | 2325:00 | 100 | 70 | 100 | | | 3, 7 | |
| 39 | 79 | 80/03/19 | 0319:20 | 0319:40 | 40 | 72 | | | | 3, 8 | |
| 40 | 79 | 80/03/19 | 0805:45 | 0806:40 | 145 | 4460 | | | 9 | 3, 9 | M |
| 41 | 79 | 80/03/19 | 1436:30 | 1440:20 | 370 | 135 | | 2339 | | 3, 11 | |
| 42 | 79 | 80/03/19 | 1736:00 | 1737:20 | 320 | 130 | 5300 | | | 3, 12 | |
| 43 | 81 | 80/03/21 | 0134:55 | 0135:20 | 45 | 64 | | | | 3, 13 | |
| 4266 | 81 | 80/03/21 | 1356:20 | 1356:40 | 180 | 68 | | | 2 | | I |
| 44 | 83 | 80/03/23 | 1658:10 | 1658:10 | 600 | 95 | | 2339 | 3 | 3, 14 | SN |
| 45 | 83 | 80/03/23 | 1921:00 | 1921:40 | 100 | 180 | 2660 | | | 3, 15 | |
| 46 | 84 | 80/03/24 | 0804:30 | 0805:20 | 75 | 490 | 12800 | | | 4, 1 | |
| 47 | 84 | 80/03/24 | 1358:05 | 1358:25 | 40 | 370 | 2261 | | | 4, 2 | |
| 48 | 84 | 80/03/24 | 1528:40 | 1529:00 | 40 | 120 | 1106 | | | 4, 3 | |
| 30 | 84 | 80/03/24 | 1535:40 | 1536:00 | 70 | 75 | | | | 4, 3 | |
| 49 | 85 | 80/03/25 | 0124:00 | 0124:30 | 60 | | | | 2 | 4, 4 | |

SUMMARY OF OF FOUR QUALITY

16

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 50 | 85 | 80/03/25 | 0149:30 | 0149:50 | 270 | 130 | 2392 | 2341 | 3 | 4, 5 | |
| 51 | 85 | 80/03/25 | 0426:00 | 0428:30 | 190 | 520 | 25760 | 2339 | 8 | 4, 6 | |
| 52 | 85 | 80/03/25 | 0449:37 | 0449:40 | 30 | 78 | | | 3 | 4, 6 | |
| 53 | 85 | 80/03/25 | 1350:00 | 1353:00 | 240 | 65 | 1622 | 2358 | 2 | 4, 7 | |
| 54 | 85 | 80/03/25 | 1405:10 | 1405:27 | 30 | 63 | 254 | 2342 | 2 | 4, 7 | |
| 55 | 85 | 80/03/25 | 1716:40 | 1717:40 | 130 | 265 | 5800 | 2359 | 7 | 4, 8 | |
| 56 | 85 | 80/03/25 | 1924:30 | 1924:35 | 40 | 110 | | | 3 | 4, 9 | |
| 59 | 85 | 80/03/25 | 2043:00 | 2050:20 | 1080 | 80 | 5538 | 2351 | 2 | 4, 12 | |
| 57 | 85 | 80/03/25 | 2200:50 | 2203:00 | 100 | 95 | | | 3 | 4, 10 | |
| 58 | 86 | 80/03/26 | 0002:30 | 0007:20 | 400 | 700 | | | 11 | 4, 11 | |
| 60 | 86 | 80/03/26 | 1419:50 | 1421:03 | 160 | 400 | | | 8 | 4, 13 | ND |
| 61 | 86 | 80/03/26 | 2202:30 | 2205:10 | 300 | 60 | | 2363 | 2 | 5, 1 | |
| 62 | 86 | 80/03/26 | 2338:00 | 2338:45 | 240 | 90 | | 2351 | 3 | 5, 2 | |
| 63 | 87 | 80/03/27 | 0413:00 | 0419:20 | 1000 | 78 | | 2363 | 2 | 5, 3 | SA |
| 64 | 87 | 80/03/27 | 0740:30 | 0741:20 | 60 | 110 | | | 3 | 5, 4 | |
| 65 | 87 | 80/03/27 | 0950:30 | 0951:20 | 110 | 79 | 1424 | | 2 | 5, 5 | |
| 66 | 87 | 80/03/27 | 1045:20 | 1046:30 | 220 | 92 | 2188 | | 3 | 5, 6 | |
| 67 | 87 | 80/03/27 | 1217:00 | 1259:00 | 3120 | 700 | 3.70E+05 | 2363 | 11 | 5, 7 | EN |
| 68 | 87 | 80/03/27 | 1837:30 | 1839:20 | 1080 | 6000 | 3.25E+05 | | 11 | 5, 8 | |
| 69 | 87 | 80/03/27 | 2030:10 | 2030:40 | 100 | 260 | | | 7 | 5, 9 | |
| 70 | 87 | 80/03/27 | 2146:00 | 2146:20 | 40 | 400 | 4400 | | 6 | 5, 10 | |
| 71 | 88 | 80/03/28 | 0636:20 | 0638:20 | 180 | 71 | 1080 | | 2 | 5, 11 | |
| 72 | 88 | 80/03/28 | 0911:40 | 0912:10 | 80 | 94 | 1040 | | 4 | 5, 12 | |
| 73 | 88 | 80/03/28 | 0947:50 | 0948:50 | 70 | 85 | 700 | | 4 | 5, 13 | |
| 74 | 88 | 80/03/28 | 0954:20 | 0956:30 | 160 | 4100 | 1.20E+05 | | 12 | 5, 13 | M |
| 75 | 88 | 80/03/28 | 2007:50 | 2008:20 | 720 | 65 | | 2360 | 2 | 6, 1 | SN |
| 76 | 88 | 80/03/28 | 2053:20 | 2053:55 | 100 | 170 | 4162 | 2357 | 4 | 6, 2 | |
| 77 | 88 | 80/03/28 | 2157:20 | 2159:10 | 500 | 3000 | 2.57E+05 | 2357 | 12 | 6, 3 | |
| 78 | 89 | 80/03/29 | 0109:00 | 0111:00 | 360 | 77 | 19.6 | 2363 | 3 | 6, 4 | |
| 79 | 89 | 80/03/29 | 0125:00 | 0125:30 | 120 | 70 | | | 2 | 6, 4 | |
| 80 | 89 | 80/03/29 | 0329:10 | 0329:30 | 150 | 280 | 3031 | 2357 | 6 | 6, 5 | |
| 81 | 89 | 80/03/29 | 0436:50 | 0437:20 | 50 | 100 | 508 | | 2 | 6, 6 | |
| 82 | 89 | 80/03/29 | 0446:40 | 0447:00 | 30 | 97 | 410 | | 3 | 6, 6 | |
| 83 | 89 | 80/03/29 | 0554:50 | 0555:40 | 290 | 109 | 3038 | | 4 | 6, 7 | |
| 84 | 89 | 80/03/29 | 0603:50 | 0604:10 | 40 | 140 | 600 | | 4 | 6, 7 | |
| 85 | 89 | 80/03/29 | 0735:50 | 0736:15 | 160 | 900 | 27528 | | 6 | 6, 8 | M |
| 86 | 89 | 80/03/29 | 0815:30 | 0816:43 | 90 | 135 | 1167 | | 3 | 6, 9 | |
| 87 | 89 | 80/03/29 | 0917:00 | 0918:13 | 210 | 19000 | 2.50E+05 | 2363 | 15 | 6, 10 | M |
| 88 | 89 | 80/03/29 | 0940:05 | 0941:23 | 150 | 680 | 15852 | | 6 | 6, 10 | |
| 89 | 89 | 80/03/29 | 0954:40 | 0955:15 | 100 | 8000 | 1.20E+05 | | 15 | 6, 10 | EN |
| 90 | 89 | 80/03/29 | 1042:30 | 1042:40 | 40 | 56 | 598 | | 2 | 6, 11 | |
| 91 | 89 | 80/03/29 | 1207:50 | 1208:10 | 50 | 71 | 377 | | 2 | 6, 12 | |
| 92 | 89 | 80/03/29 | 1216:40 | 1217:00 | 30 | 96 | | | 2 | 6, 12 | |
| 93 | 89 | 80/03/29 | 1419:00 | 1420:10 | 170 | 93 | | | 4 | 6, 13 | |
| 94 | 89 | 80/03/29 | 1443:00 | 1443:55 | 80 | 108 | 2396 | | 3 | 6, 14 | EN |
| 95 | 89 | 80/03/29 | 1521:00 | 1521:40 | 90 | 63 | 957 | | 2 | 6, 15 | |
| 96 | 89 | 80/03/29 | 1729:20 | 1729:25 | 150 | 95 | | | 2 | 6, 16 | |
| 97 | 89 | 80/03/29 | 1854:50 | 1855:00 | 20 | 55 | | | 2 | 6, 17 | |
| 98 | 89 | 80/03/29 | 2014:10 | 2014:42 | 70 | 385 | 4375 | | 4 | 6, 18 | |
| 99 | 89 | 80/03/29 | 2040:00 | 2041:40 | 240 | 210 | 6930 | | 3 | 6, 19 | |
| 100 | 89 | 80/03/29 | 2046:00 | 2048:50 | 330 | 125 | 7299 | | 3 | 6, 19 | |
| 101 | 90 | 80/03/30 | 0005:40 | 0006:10 | 50 | 90 | 563 | 2351 | 2 | 7, 1 | |
| 102 | 90 | 80/03/30 | 0252:35 | 0252:45 | 20 | 57 | 806 | | 3 | 7, 2 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 103 | 90 | 80/03/30 | 0302:20 | 0302:40 | 110 | 140 | 2970 | | 3 | 7, 2 | |
| 104 | 90 | 80/03/30 | 0322:20 | 0322:35 | 30 | 82 | 390 | | 3 | 7, 2 | |
| 105 | 90 | 80/03/30 | 0749:15 | 0750:00 | 55 | 62 | 470 | | 2 | 7, 3 | |
| 106 | 90 | 80/03/30 | 1525:00 | 1525:40 | 100 | 134 | 1980 | | 4 | 7, 4 | |
| 107 | 90 | 80/03/30 | 1841:10 | 1841:50 | 300 | 194 | | | 5 | 7, 5 | ND |
| 108 | 90 | 80/03/30 | 2049:15 | 2049:45 | 55 | 190 | 1416 | | 6 | 7, 6 | |
| 109 | 91 | 80/03/31 | 0115:35 | 0117:40 | 140 | 210 | 1933 | | 5 | 7, 7 | |
| 110 | 91 | 80/03/31 | 1123:40 | 1124:10 | 60 | 500 | 6761 | | 6 | 7, 8 | |
| 35 | 91 | 80/03/31 | 1129:10 | 1129:30 | 75 | 280 | 2615 | | | 7, 8 | |
| 111 | 91 | 80/03/31 | 1705:15 | 1705:22 | 13 | 82 | 92 | | 4 | 7, 9 | |
| 204 | 91 | 80/03/31 | 1706:40 | 1707:04 | 64 | 130 | 1049 | | 4 | 7, 9 | |
| 880 | 91 | 80/03/31 | 1708:30 | 1708:39 | 40 | 1131 | | | 7 | 7, 9 | |
| 112 | 92 | 80/04/01 | 0300:25 | 0300:50 | 50 | 70 | 240 | | 2 | 8, 1 | |
| 113 | 92 | 80/04/01 | 0943:10 | 0943:40 | 98 | 70 | 1190 | | 4 | 8, 2 | |
| 114 | 92 | 80/04/01 | 1524:25 | 1525:45 | 245 | 200 | 12800 | | 5 | 8, 3 | |
| 115 | 92 | 80/04/01 | 1539:55 | 1541:05 | 200 | 72 | 1240 | | 2 | 8, 3 | |
| 116 | 92 | 80/04/01 | 2007:00 | 2018:30 | 720 | 110 | | | 2 | 8, 4 | |
| 117 | 92 | 80/04/01 | 2159:20 | 2200:00 | 150 | 72 | 819 | | | 8, 5 | |
| 118 | 93 | 80/04/02 | 0254:40 | 0255:00 | 40 | 78 | 295 | | 2 | 8, 6 | |
| 119 | 93 | 80/04/02 | 0416:10 | 0416:40 | 340 | 160 | 3604 | 2363 | 4 | 8, 7 | |
| 120 | 93 | 80/04/02 | 0902:20 | 0903:35 | 160 | 380 | 13005 | 2363 | 6 | 8, 8 | |
| 121 | 93 | 80/04/02 | 1121:00 | 1121:30 | 70 | 950 | 11245 | 2363 | 6 | 8, 9 | M |
| 122 | 93 | 80/04/02 | 1659:30 | 1702:40 | 320 | 320 | 13940 | | 4 | 8, 11 | |
| 123 | 93 | 80/04/02 | 1724:15 | 1724:30 | 35 | 49 | 400 | | 2 | 8, 12 | |
| 124 | 93 | 80/04/02 | 2022:00 | 2024:15 | 190 | 72 | 1450 | | 2 | 8, 13 | |
| 125 | 94 | 80/04/03 | 0117:00 | 0117:50 | 720 | 950 | | | 5 | 8, 14 | |
| 126 | 94 | 80/04/03 | 0633:20 | 0638:00 | 500 | 340 | 33300 | | 7 | 8, 15 | |
| 127 | 94 | 80/04/03 | 0716:30 | 0719:05 | 960 | 1830 | 3.00E+05 | | 12 | 8, 16 | M |
| 128 | 94 | 80/04/03 | 0758:30 | 0758:25 | 15 | 77 | 264 | | 3 | 8, 17 | |
| 129 | 94 | 80/04/03 | 2039:40 | 2040:20 | 60 | 140 | 10000 | 2359 | 3 | 9, 2 | |
| 130 | 95 | 80/04/04 | 0721:40 | 0722:00 | 30 | 105 | | | 2 | 9, 3 | |
| 131 | 95 | 80/04/04 | 0858:50 | 0858:50 | 30 | 100 | | | | 9, 4 | |
| 132 | 95 | 80/04/04 | 1101:30 | 1105:30 | 420 | 100 | | | | 9, 5 | |
| 133 | 95 | 80/04/04 | 1515:50 | 1517:45 | 2160 | 600 | 2.64E+05 | 2363 | | 9, 6 | SN, ES |
| 134 | 95 | 80/04/04 | 1654:55 | 1655:06 | 89 | 97 | 1350 | | 2 | | ND |
| 135 | 95 | 80/04/04 | 2156:20 | 2156:50 | 100 | 105 | | 2362 | 4 | 9, 7 | AX |
| 136 | 96 | 80/04/05 | 0008:50 | 0009:25 | 60 | 880 | | 2363 | 6 | 9, 8 | M |
| 137 | 96 | 80/04/05 | 0146:35 | 0146:47 | 37 | 90 | | | 5 | 9, 10 | |
| 138 | 96 | 80/04/05 | 0424:57 | 0425:40 | 73 | 80 | | | 2 | 9, 11 | |
| 139 | 96 | 80/04/05 | 0553:20 | 0556:30 | 910 | 87 | 13650 | 2372 | 2 | 9, 12 | |
| 140 | 96 | 80/04/05 | 0810:50 | 0810:57 | 30 | 90 | | | 2 | 9, 13 | |
| 141 | 96 | 80/04/05 | 0944:10 | 0944:30 | 180 | 150 | | | 4 | 9, 14 | |
| 142 | 96 | 80/04/05 | 1039:50 | 1041:30 | 410 | 460 | 15580 | | 8 | 9, 15 | |
| 143 | 96 | 80/04/05 | 1111:20 | 1113:20 | 260 | 65 | | | 2 | 9, 16 | |
| 144 | 96 | 80/04/05 | 1541:30 | 1551:10 | 630 | 2100 | | 2372 | | 9, 17 | M, ES |
| 145 | 96 | 80/04/05 | 1710:00 | 1710:55 | 240 | 85 | | | 2 | 10, 1 | |
| 146 | 96 | 80/04/05 | 1849:45 | 1851:30 | 155 | 180 | 3500 | | 4 | 10, 2 | |
| 147 | 96 | 80/04/05 | 2007:20 | 2008:40 | 160 | 80 | | | 2 | 10, 3 | AX |
| 148 | 96 | 80/04/05 | 2143:00 | 2145:15 | 720 | 110 | | | 2 | 10, 4 | AX |
| 149 | 97 | 80/04/06 | 0324:25 | 0325:35 | 105 | 88 | 450 | | 2 | 10, 5 | |
| 150 | 97 | 80/04/06 | 0404:00 | 0413:20 | 2100 | 2360 | 7.28E+05 | | 10 | 10, 6 | M |
| 151 | 97 | 80/04/06 | 0604:20 | 0605:00 | 120 | 80 | 710 | | 2 | 10, 8 | |
| 152 | 97 | 80/04/06 | 0611:40 | 0612:35 | 100 | 175 | 5500 | | 4 | 10, 8 | |

ORIGINAL PAGE 11
OF POOR QUALITY

18

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 153 | 97 | 80/04/06 | 0716:30 | 0748:20 | 2200 | 95 | 15122 | | 3 | 10, 9 | |
| 154 | 97 | 80/04/06 | 1223:35 | 1225:10 | 320 | 78 | 2280 | | 2 | 10, 10 | |
| 155 | 97 | 80/04/06 | 1350:40 | 1351:40 | 290 | 84 | 4260 | | 10 | 10, 11 | |
| 156 | 97 | 80/04/06 | 1433:40 | 1434:30 | 260 | 2000 | 2.76E+05 | | 10 | 10, 12 | M, SA, EN |
| 157 | 97 | 80/04/06 | 1539:20 | 1541:25 | 600 | 900 | 1.54E+05 | | 3 | 10, 13 | M |
| 158 | 98 | 80/04/07 | 0050:00 | 0052:30 | 2000 | 430 | 2.90E+05 | | 4 | 10, 14 | EN |
| 159 | 98 | 80/04/07 | 0129:20 | 0129:55 | 50 | 93 | 990 | | 2 | 10, 14 | |
| 160 | 98 | 80/04/07 | 0139:10 | 0139:28 | 30 | 510 | 4669 | | 6 | 10, 14 | |
| 161 | 98 | 80/04/07 | 0319:30 | 0320:05 | 70 | 83 | 1229 | | | 10, 15 | |
| 162 | 98 | 80/04/07 | 0401:30 | 0401:30 | 700 | 89 | 9830 | | | 10, 16 | SN |
| 163 | 98 | 80/04/07 | 0458:10 | 0500:00 | 200 | 77 | 778 | | | 10, 17 | |
| 164 | 98 | 80/04/07 | 0537:40 | 0538:15 | 1800 | 2300 | 6.10E+05 | | | 10, 18 | M, SN |
| 165 | 98 | 80/04/07 | 0540:35 | 0540:48 | 100 | 1970 | | | | 10, 18 | |
| 166 | 98 | 80/04/07 | 0553:55 | 0555:40 | 165 | 370 | 8612 | | | 10, 18 | |
| 167 | 98 | 80/04/07 | 0603:40 | 0604:50 | 150 | 105 | 4465 | | 2 | 10, 18 | |
| 168 | 98 | 80/04/07 | 0720:10 | 0720:45 | 50 | 60 | | | 2 | 11, 1 | |
| 169 | 98 | 80/04/07 | 1033:40 | 1034:50 | 120 | 130 | 3441 | | 3 | 11, 2 | |
| 170 | 98 | 80/04/07 | 1220:50 | 1221:10 | 60 | 62 | 115 | | 2 | 11, 3 | |
| 171 | 98 | 80/04/07 | 1243:50 | 1244:20 | 60 | 79 | 1786 | | 2 | 11, 4 | |
| 172 | 98 | 80/04/07 | 1254:10 | 1254:30 | 40 | 170 | 999 | | 3 | 11, 4 | |
| 173 | 98 | 80/04/07 | 1341:40 | 1342:20 | 120 | 54 | 1024 | | 2 | 11, 5 | |
| 174 | 98 | 80/04/07 | 1652:00 | 1652:24 | 50 | 230 | 2773 | | 2 | 11, 6 | |
| 175 | 98 | 80/04/07 | 1655:50 | 1656:10 | 40 | 105 | 1393 | | 2 | 11, 6 | |
| 176 | 98 | 80/04/07 | 1840:50 | 1843:55 | 320 | 495 | 36370 | | 3 | 11, 7 | |
| 177 | 98 | 80/04/07 | 2009:10 | 2009:25 | 40 | 70 | 336 | | 2 | 11, 8 | |
| 178 | 98 | 80/04/07 | 2153:30 | 2153:35 | 10 | 108 | 290 | | 4 | 11, 9 | |
| 179 | 98 | 80/04/07 | 2325:40 | 2327:35 | 200 | 70 | 973 | | 2 | 11, 10 | |
| 180 | 98 | 80/04/07 | 2354:10 | 2354:30 | 30 | 96 | 1660 | | 2 | 11, 11 | |
| 181 | 98 | 80/04/07 | 2359:25 | 2359:30 | 40 | 80 | 1100 | | 2 | 11, 11 | |
| 182 | 99 | 80/04/08 | 0115:20 | 0117:40 | 540 | 190 | 13000 | | 4 | 11, 12 | |
| 183 | 99 | 80/04/08 | 0131:10 | 0131:30 | 58 | 82 | 290 | | 2 | 11, 13 | |
| 184 | 99 | 80/04/08 | 0140:10 | 0140:28 | 30 | 180 | 1124 | | 2 | 11, 14 | |
| 185 | 99 | 80/04/08 | 0146:50 | 0147:30 | 55 | 105 | 737 | | 2 | 11, 14 | M |
| 186 | 99 | 80/04/08 | 0238:10 | 0238:40 | 280 | 37 | | | 2 | 11, 15 | |
| 187 | 99 | 80/04/08 | 0259:15 | 0305:00 | 1525 | 3800 | 5.40E+05 | | 6 | 11, 16 | EN |
| 188 | 99 | 80/04/08 | 0320:00 | 0320:30 | 60 | 90 | 967 | | 2 | 11, 16 | |
| 189 | 99 | 80/04/08 | 0730:50 | 0731:40 | 90 | 75 | | | 2 | 11, 17 | |
| 190 | 99 | 80/04/08 | 0923:50 | 0924:30 | 80 | 70 | 664 | | 2 | 11, 18 | |
| 191 | 99 | 80/04/08 | 0931:00 | 0931:10 | 30 | 67 | 277 | | 2 | 11, 18 | |
| 192 | 99 | 80/04/08 | 1050:30 | 1051:30 | 140 | 75 | 1470 | | 2 | 11, 19 | |
| 193 | 99 | 80/04/08 | 1215:30 | 1215:34 | 12 | 40 | | | 2 | 12, 1 | |
| 194 | 99 | 80/04/08 | 1218:00 | 1219:40 | 210 | 210 | | | 5 | 12, 1 | |
| 195 | 99 | 80/04/08 | 1230:30 | 1231:00 | 70 | 120 | | | 3 | 12, 1 | |
| 196 | 99 | 80/04/08 | 1532:45 | 1532:50 | 15 | 60 | 175 | | 2 | 12, 2 | |
| 197 | 99 | 80/04/08 | 1702:50 | 1703:15 | 40 | 63 | 284 | | 2 | 12, 3 | |
| 198 | 99 | 80/04/08 | 2155:10 | 2155:20 | 35 | 123 | 827 | | 3 | 12, 4 | |
| 199 | 99 | 80/04/08 | 2206:00 | 2206:10 | 40 | 70 | 369 | | 2 | 12, 5 | |
| 200 | 100 | 80/04/09 | 0128:00 | 0129:30 | 600 | 70 | | | 2 | 12, 8 | |
| 201 | 100 | 80/04/09 | 0359:25 | 0402:30 | 200 | 100 | 639 | | 2 | 12, 6 | SN |
| 202 | 100 | 80/04/09 | 0409:20 | 0411:10 | 110 | 130 | 2482 | | 2 | 12, 6 | |
| 203 | 100 | 80/04/09 | 0445:30 | 0445:50 | 40 | 66 | 319 | | 2 | 12, 7 | |
| 4273 | 100 | 80/04/09 | 0757:40 | 0758:45 | 250 | 127 | 2438 | | 2 | 143, 15 | I |
| 205 | 100 | 80/04/09 | 0807:15 | 0809:10 | 220 | 64 | | | 2 | 12, 9 | |

ORIGINAL PAGE 13
OF POOR QUALITY

19

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 4274 | 100 | 80/04/09 | 1045:40 | 1046:05 | 55 | 120 | 4300 | | 5 | 143, 16 | I |
| 206 | 100 | 80/04/09 | 1209:03 | 1209:13 | 50 | 122 | 1303 | | 3 | 12, 10 | DG |
| 207 | 100 | 80/04/09 | 1212:40 | 1213:50 | 100 | 76 | 836 | | 2 | 12, 10 | |
| 208 | 100 | 80/04/09 | 1705:48 | 1706:00 | 20 | 67 | | | 2 | | |
| 209 | 100 | 80/04/09 | 1837:24 | 1837:42 | 30 | 71 | | | | | |
| 210 | 100 | 80/04/09 | 2156:09 | 2156:23 | 50 | 85 | | | | | |
| 211 | 101 | 80/04/10 | 0116:48 | 0117:00 | 75 | 90 | | | | | |
| 212 | 101 | 80/04/10 | 0124:30 | 0125:30 | 104 | 340 | 4939 | 2370 | 8 | 12, 11 | |
| 213 | 101 | 80/04/10 | 0237:50 | 0238:18 | 120 | 93 | | 2377 | 2 | 12, 12 | |
| 214 | 101 | 80/04/10 | 0247:30 | 0248:40 | 150 | 140 | 6268 | 2370 | 2 | 12, 12 | |
| 215 | 101 | 80/04/10 | 0250:50 | 0251:18 | 100 | 385 | 6822 | 2370 | 6 | 12, 12 | |
| 216 | 101 | 80/04/10 | 0437:56 | 0438:05 | 190 | 38 | | 2372 | 2 | | |
| 217 | 101 | 80/04/10 | 0755:54 | 0757:32 | 220 | 90 | 4188 | | 4 | 12, 13 | |
| 218 | 101 | 80/04/10 | 0800:10 | 0800:40 | 45 | 80 | | | 4 | 12, 13 | |
| 219 | 101 | 80/04/10 | 0916:00 | 0918:50 | 720 | 4400 | 3.00E+05 | 2372 | 8 | 12, 14 | M |
| 220 | 101 | 80/04/10 | 1024:10 | 1027:10 | 230 | 115 | 4131 | 2372 | 6 | 12, 15 | AX |
| 221 | 101 | 80/04/10 | 1251:34 | 1252:50 | 192 | 170 | 5358 | 2372 | 2 | 12, 16 | |
| 222 | 101 | 80/04/10 | 2013:25 | 2013:40 | 50 | 84 | | | 2 | | |
| 223 | 101 | 80/04/10 | 2156:15 | 2157:50 | 230 | 91 | 3890 | 2375 | 2 | 13, 1 | |
| 224 | 102 | 80/04/11 | 0058:30 | 0058:50 | 115 | 85 | | | 2 | | |
| 225 | 102 | 80/04/11 | 0126:15 | 0126:20 | 10 | 100 | | | 2 | | DG |
| 226 | 102 | 80/04/11 | 0412:00 | 0416:05 | 320 | 210 | 14560 | | 4 | 13, 2 | M |
| 227 | 102 | 80/04/11 | 0427:45 | 0428:50 | 170 | 150 | 4060 | | 4 | 13, 2 | |
| 228 | 102 | 80/04/11 | 0533:20 | 0533:40 | 65 | 70 | | | 2 | | SN |
| 229 | 102 | 80/04/11 | 0618:15 | 0618:40 | 85 | 70 | | | 2 | | |
| 230 | 102 | 80/04/11 | 0630:15 | 0631:20 | 155 | 100 | | | 2 | 13, 4 | M, EN |
| 231 | 102 | 80/04/11 | 0850:00 | 0850:01 | 70 | 72 | | | 2 | | |
| 232 | 102 | 80/04/11 | 0902:50 | 0907:10 | 490 | 180 | 23200 | | 3 | 13, 5 | |
| 233 | 102 | 80/04/11 | 1105:15 | 1105:15 | 10 | 72 | | | 2 | | |
| 234 | 102 | 80/04/11 | 1348:30 | 1350:10 | 205 | 1150 | 77000 | | 6 | 13, 6 | |
| 235 | 102 | 80/04/11 | 1510:30 | 1511:15 | 130 | 265 | 10400 | | 6 | 13, 7 | |
| 236 | 102 | 80/04/11 | 1702:55 | 1703:00 | 35 | 72 | | | 2 | | |
| 237 | 102 | 80/04/11 | 1821:10 | 1821:40 | 360 | 260 | 11000 | | 6 | 13, 8 | |
| 238 | 102 | 80/04/11 | 2033:25 | 2033:50 | 65 | 91 | | | 2 | | |
| 239 | 102 | 80/04/11 | 2132:15 | 2142:50 | 800 | 480 | 10400 | | 10 | 13, 9 | |
| 240 | 102 | 80/04/11 | 2202:55 | 2203:00 | 40 | 70 | | | 10 | | |
| 241 | 102 | 80/04/11 | 2308:10 | 2310:50 | 530 | 360 | 32000 | | 4 | 13, 10 | SN |
| 242 | 103 | 80/04/12 | 0054:10 | 0056:30 | 205 | 115 | 4640 | | 2 | 13, 11 | |
| 243 | 103 | 80/04/12 | 0220:00 | 0220:30 | 85 | 66 | | | 2 | | |
| 244 | 103 | 80/04/12 | 0454:00 | 0454:10 | 15 | 70 | | | 2 | | |
| 245 | 103 | 80/04/12 | 0541:30 | 0541:40 | 130 | 490 | 7680 | | 8 | 13, 12 | |
| 246 | 103 | 80/04/12 | 0552:00 | 0555:30 | 715 | 345 | 34100 | | 6 | 13, 12 | |
| 247 | 103 | 80/04/12 | 0630:10 | 0630:50 | 75 | 43 | | | 2 | | |
| 248 | 103 | 80/04/12 | 0846:15 | 0846:50 | 85 | 80 | | | 2 | | |
| 249 | 103 | 80/04/12 | 0907:40 | 0920:40 | 1250 | 70 | 20000 | | 2 | 13, 13 | |
| 250 | 103 | 80/04/12 | 0940:00 | 0940:05 | 22 | 140 | | | 3 | 13, 14 | |
| 251 | 103 | 80/04/12 | 1337:55 | 1338:25 | 210 | 76 | 2600 | 2373 | 2 | 13, 15 | |
| 252 | 103 | 80/04/12 | 1428:05 | 1428:15 | 200 | 145 | | 2375 | 2 | 13, 16 | DG, EG |
| 253 | 103 | 80/04/12 | 1508:10 | 1508:30 | 85 | 60 | | | 2 | | |
| 254 | 103 | 80/04/12 | 1524:20 | 1524:40 | 30 | 70 | | | 2 | | |
| 255 | 103 | 80/04/12 | 1526:50 | 1527:00 | 30 | 58 | | | 2 | | |
| 256 | 103 | 80/04/12 | 1645:00 | 1645:20 | 40 | 60 | | | 2 | | |
| 257 | 103 | 80/04/12 | 1709:20 | 1709:35 | 20 | 75 | | | 2 | | |

ORIGINAL RECORD
OF PEAK CATALOG

20

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 258 | 103 | 80/04/12 | 2014:40 | 2015:20 | 75 | 115 | | | 2 | 13, 17 | |
| 259 | 103 | 80/04/12 | 2307:00 | 2307:22 | 155 | 195 | 5977 | 2375 | 4 | 14, 1 | SN |
| 260 | 104 | 80/04/13 | 0228:50 | 0231:10 | 220 | 530 | 11103 | | 8 | 14, 2 | |
| 261 | 104 | 80/04/13 | 0402:30 | 0405:20 | 990 | 800 | 60211 | | 6 | 14, 3 | M |
| 262 | 104 | 80/04/13 | 0420:00 | 0420:40 | 180 | 100 | 1725 | | 4 | 14, 3 | |
| 263 | 104 | 80/04/13 | 0453:00 | 0453:30 | 120 | 550 | 9683 | | 5 | 14, 4 | |
| 264 | 104 | 80/04/13 | 0545:48 | 0545:54 | 50 | 115 | | | 4 | | |
| 265 | 104 | 80/04/13 | 0546:30 | 0546:40 | 40 | 68 | | | 2 | | |
| 266 | 104 | 80/04/13 | 0547:20 | 0547:26 | 33 | 82 | | | 4 | | |
| 267 | 104 | 80/04/13 | 0900:20 | 0900:45 | 38 | 62 | | | 3 | 14, 5 | |
| 268 | 104 | 80/04/13 | 0902:00 | 0902:15 | 35 | 140 | 506 | | 4 | 14, 5 | |
| 269 | 104 | 80/04/13 | 0903:20 | 0904:10 | 158 | 2006 | 34898 | | 10 | 14, 5 | M |
| 270 | 104 | 80/04/13 | 0906:30 | 0906:45 | 30 | 85 | | | 2 | 14, 5 | |
| 271 | 104 | 80/04/13 | 0907:10 | 0907:32 | 55 | 75 | | | 2 | 14, 5 | |
| 272 | 104 | 80/04/13 | 0913:22 | 0913:34 | 22 | 73 | | | 4 | 14, 5 | |
| 273 | 104 | 80/04/13 | 1023:45 | 1023:58 | 75 | 260 | 2956 | | 4 | 14, 6 | |
| 274 | 104 | 80/04/13 | 1111:50 | 1113:00 | 130 | 92 | | | 2 | | |
| 275 | 104 | 80/04/13 | 1227:25 | 1229:42 | 234 | 490 | 11760 | | 6 | 14, 7 | |
| 276 | 104 | 80/04/13 | 1239:45 | 1240:10 | 60 | 140 | 1052 | | 5 | 14, 7 | |
| 277 | 104 | 80/04/13 | 1244:10 | 1247:20 | 200 | 87 | | | 4 | 14, 7 | |
| 278 | 104 | 80/04/13 | 1652:30 | 1653:20 | 120 | 54 | | 2391 | 2 | | |
| 279 | 104 | 80/04/13 | 1710:20 | 1711:30 | 100 | 82 | | | 3 | | |
| 280 | 104 | 80/04/13 | 1851:00 | 1854:00 | 247 | 160 | 5825 | | 4 | 14, 9 | |
| 281 | 104 | 80/04/13 | 2130:00 | 2134:00 | 315 | 90 | | | 2 | | SN, AX |
| 282 | 104 | 80/04/13 | 2150:10 | 2150:52 | 110 | 96 | | | 2 | | |
| 283 | 104 | 80/04/13 | 2315:00 | 2316:20 | 116 | 93 | | | 2 | | |
| 284 | 105 | 80/04/14 | 0557:40 | 0557:50 | 40 | 57 | | | 2 | | |
| 285 | 105 | 80/04/14 | 0715:50 | 0717:15 | 190 | 62 | | | 2 | | |
| 286 | 105 | 80/04/14 | 1107:10 | 1107:30 | 36 | 62 | | 2390 | 2 | | |
| 287 | 105 | 80/04/14 | 1110:20 | 1111:50 | 145 | 102 | | 2390 | 4 | | |
| 288 | 105 | 80/04/14 | 1153:10 | 1153:40 | 60 | 170 | 1321 | 2377 | 4 | 14, 10 | SN |
| 289 | 105 | 80/04/14 | 2004:10 | 2005:10 | 260 | 420 | 13500 | 2390 | 10 | 14, 11 | |
| 290 | 105 | 80/04/14 | 2025:20 | 2028:35 | 280 | 115 | 2466 | 2375 | 4 | 14, 12 | |
| 291 | 105 | 80/04/14 | 2030:45 | 2033:40 | 280 | 105 | 4039 | | 2 | 14, 12 | |
| 292 | 105 | 80/04/14 | 2136:00 | 2138:20 | 380 | 350 | 37724 | 2375 | 5 | 14, 13 | |
| 293 | 106 | 80/04/15 | 0547:30 | 0548:50 | 210 | 780 | 21791 | | 10 | 14, 14 | M |
| 294 | 106 | 80/04/15 | 0851:20 | 0851:35 | 20 | 65 | | | | | ND |
| 295 | 106 | 80/04/15 | 1508:00 | 1510:25 | 700 | 19000 | 9.50E+05 | 2389 | 11 | 14, 16 | M |
| 296 | 107 | 80/04/16 | 0100:40 | 0103:30 | 270 | 108 | | | 3 | | ND |
| 297 | 107 | 80/04/16 | 0115:20 | 0116:10 | 150 | | | | 2 | | ND |
| 298 | 107 | 80/04/16 | 0255:40 | 0256:00 | 30 | 91 | | | 2 | | |
| 299 | 107 | 80/04/16 | 0402:00 | 0407:00 | 420 | 280 | | | 5 | 15, 1 | ND |
| 300 | 107 | 80/04/16 | 0538:00 | 0540:30 | 380 | 120 | 5358 | | 3 | 15, 2 | |
| 301 | 108 | 80/04/17 | 0104:05 | 0105:15 | 80 | 77 | | | 2 | | |
| 4267 | 108 | 80/04/17 | 0249:15 | 0250:30 | 145 | 76 | | | 5 | | I |
| 302 | 108 | 80/04/17 | 0436:50 | 0437:50 | 185 | 75 | | | 2 | | |
| 303 | 108 | 80/04/17 | 0622:15 | 0622:40 | 65 | 70 | | | 2 | | |
| 304 | 108 | 80/04/17 | 1958:00 | 2005:30 | 540 | 91 | 3560 | | 2 | 15, 3 | |
| 305 | 108 | 80/04/17 | 2314:10 | 2314:20 | 40 | 84 | | | 2 | | |
| 306 | 109 | 80/04/18 | 0620:05 | 0626:20 | 205 | 75 | | | 2 | 15, 4 | EN |
| 307 | 109 | 80/04/18 | 2001:00 | 2003:05 | 270 | 220 | | | 4 | | |
| * 308 | 110 | 80/04/19 | 0119:45 | 0119:48 | 3 | 2500 | | | 15 | 15, 5 | |
| 309 | 110 | 80/04/19 | 0240:00 | 0240:40 | 90 | 140 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 310 | 111 | 80/04/20 | 0108:10 | 0108:40 | 75 | 75 | | | 2 | | |
| 311 | 111 | 80/04/20 | 0248:15 | 0248:25 | 145 | 105 | 1960 | 2396 | 3 | 15, 6 | |
| 312 | 111 | 80/04/20 | 1508:15 | 1508:20 | 15 | 90 | | | 3 | | |
| 313 | 111 | 80/04/20 | 1553:55 | 1554:05 | 50 | 135 | 710 | | 3 | 15, 7 | |
| 314 | 111 | 80/04/20 | 1956:05 | 1956:09 | 10 | 97 | | 2404 | 2 | | |
| 315 | 111 | 80/04/20 | 2019:40 | 2020:00 | 210 | 90 | | | 2 | | |
| 316 | 111 | 80/04/20 | 2133:00 | 2137:10 | 540 | 60 | | 2375 | 2 | | |
| 317 | 111 | 80/04/20 | 2152:20 | 2152:55 | 60 | 60 | | | 2 | | |
| * 318 | 112 | 80/04/21 | 0308:04 | 0308:09 | 27 | 670 | 5622 | | 15 | 15, 8 | |
| 319 | 112 | 80/04/21 | 0405:50 | 0407:00 | 120 | 70 | | | 2 | | |
| 320 | 112 | 80/04/21 | 0539:27 | 0539:43 | 50 | 160 | 2327 | | 5 | 15, 9 | |
| 321 | 112 | 80/04/21 | 0541:45 | 0542:07 | 50 | 540 | 5145 | | 5 | 15, 9 | |
| 322 | 112 | 80/04/21 | 0542:56 | 0543:02 | 80 | 280 | 4702 | | 5 | 15, 9 | |
| 323 | 112 | 80/04/21 | 0552:40 | 0553:40 | 110 | | | | 2 | | |
| 324 | 112 | 80/04/21 | 1827:15 | 1827:58 | 50 | 125 | 860 | | 2 | 15, 10 | |
| 325 | 112 | 80/04/21 | 2306:00 | 2306:50 | 150 | 90 | | | 2 | | |
| 326 | 113 | 80/04/22 | 0100:50 | 0101:20 | 50 | 80 | | | 2 | 15, 11 | |
| 327 | 113 | 80/04/22 | 0117:10 | 0118:30 | 120 | 112 | 5161 | 2396 | 2 | 15, 11 | |
| 328 | 113 | 80/04/22 | 0521:30 | 0521:41 | 150 | 92 | | 2396 | 2 | | SN |
| 329 | 113 | 80/04/22 | 0531:28 | 0531:50 | 30 | 60 | | | 2 | | |
| 330 | 113 | 80/04/22 | 0714:20 | 0719:10 | 400 | 60 | | | 5 | | AX |
| 331 | 115 | 80/04/24 | 0550:30 | 0557:40 | 450 | 270 | 6835 | | 3 | 16, 1 | |
| 4262 | 115 | 80/04/24 | 0930:10 | 0930:55 | 207 | 112 | 2211 | | 5 | 143, 8 | I |
| 332 | 115 | 80/04/24 | 1807:50 | 1809:30 | 135 | 77 | | | 2 | | |
| 333 | 116 | 80/04/25 | 1102:00 | 1104:05 | 185 | 80 | | | 2 | | |
| 334 | 116 | 80/04/25 | 1910:00 | 1910:05 | 10 | 65 | | | 2 | | |
| 335 | 116 | 80/04/25 | 2040:40 | 2041:00 | 50 | 68 | | | 2 | | |
| 336 | 117 | 80/04/26 | 0057:40 | 0101:00 | 380 | 83 | 5243 | | 2 | 16, 2 | |
| 337 | 117 | 80/04/26 | 0106:30 | 0107:50 | 200 | 98 | 3154 | | 2 | 16, 2 | |
| 338 | 117 | 80/04/26 | 0110:00 | 0115:40 | 700 | 65 | 1720 | | 2 | 16, 2 | EN |
| 339 | 117 | 80/04/26 | 0345:00 | 0345:30 | 60 | 63 | | 2411 | 2 | | |
| 340 | 117 | 80/04/26 | 0348:00 | 0348:30 | 100 | 68 | | 2411 | 2 | | |
| 341 | 117 | 80/04/26 | 0602:10 | 0603:25 | 470 | 305 | 9011 | 2411 | 5 | 16, 3 | |
| 342 | 117 | 80/04/26 | 0720:12 | 0720:50 | 135 | 125 | 3572 | | 2 | 16, 4 | SA |
| 343 | 117 | 80/04/26 | 0932:30 | 0934:05 | 120 | 86 | | 2411 | 2 | | |
| 344 | 117 | 80/04/26 | 1143:30 | 1144:45 | 200 | 135 | 7938 | 2407 | 2 | 16, 5 | ES |
| 345 | 117 | 80/04/26 | 1229:00 | 1229:06 | 25 | 305 | 1680 | | 5 | 16, 6 | M |
| 346 | 117 | 80/04/26 | 1244:35 | 1245:55 | 100 | 78 | | 2411 | 2 | 16, 7 | EN |
| 347 | 117 | 80/04/26 | 2030:43 | 2031:40 | 555 | 4200 | 2.09E+05 | 2411 | 12 | 16, 8 | M |
| 348 | 117 | 80/04/26 | 2136:29 | 2137:33 | 155 | 165 | 4420 | | 4 | 16, 9 | |
| 349 | 117 | 80/04/26 | 2146:37 | 2147:30 | 53 | 83 | | | 4 | | |
| 350 | 117 | 80/04/26 | 2333:52 | 2334:00 | 30 | 88 | | | 6 | | |
| 351 | 118 | 80/04/27 | 0106:10 | 0106:28 | 30 | 59 | | 2411 | 4 | | |
| 352 | 118 | 80/04/27 | 0109:15 | 0109:50 | 58 | 58 | | 2411 | 4 | | |
| 353 | 118 | 80/04/27 | 0228:00 | 0229:15 | 340 | 235 | 14830 | | 7 | 16, 10 | |
| 354 | 118 | 80/04/27 | 0250:50 | 0252:05 | 610 | 390 | 27400 | 2396 | 6 | 16, 11 | |
| 355 | 119 | 80/04/28 | 0132:57 | 0133:12 | 40 | 80 | | | 5 | | EN |
| 356 | 119 | 80/04/28 | 0237:50 | 0238:00 | 30 | 54 | | 2407 | 2 | | |
| 357 | 119 | 80/04/28 | 0344:50 | 0344:55 | 10 | 160 | 530 | 2407 | 4 | 16, 12 | |
| 358 | 119 | 80/04/28 | 0546:20 | 0547:00 | 80 | 34 | | | 3 | | |
| 359 | 119 | 80/04/28 | 0725:00 | 0725:10 | 20 | 104 | | | 3 | | |
| 360 | 119 | 80/04/28 | 0900:30 | 0902:24 | 300 | 700 | 18830 | | 8 | 16, 13 | |
| 361 | 119 | 80/04/28 | 0916:30 | 0917:15 | 90 | 60 | | | 2 | | |

ORIGINAL DATA
OF POOR QUALITY

22

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 362 | 119 | 80/04/28 | 0926:45 | 0927:10 | 55 | 60 | | | 2 | | |
| 363 | 119 | 80/04/28 | 0928:50 | 0928:58 | 25 | 74 | | | 2 | | |
| 364 | 119 | 80/04/28 | 1038:20 | 1038:30 | 20 | 140 | 836 | | 4 | 16, 14 | |
| 365 | 119 | 80/04/28 | 1041:10 | 1041:30 | 80 | 110 | | | 4 | 16, 14 | |
| 4277 | 119 | 80/04/28 | 1227:05 | 1227:50 | 278 | | 1235 | | 2 | 16, 15 | I |
| 366 | 119 | 80/04/28 | 1235:10 | 1238:50 | 480 | 900 | 87217 | 2407 | 7 | 16, 15 | EN |
| 367 | 119 | 80/04/28 | 1546:10 | 1546:40 | 60 | 97 | | | 2 | | |
| 368 | 119 | 80/04/28 | 1712:15 | 1712:35 | 120 | 80 | | | 2 | 17, 1 | SA, AX |
| 369 | 119 | 80/04/28 | 1714:40 | 1715:30 | 300 | 92 | | | 2 | 17, 1 | |
| 370 | 119 | 80/04/28 | 1724:00 | 1724:30 | 90 | 112 | 1433 | | 2 | 17, 1 | |
| 371 | 119 | 80/04/28 | 1727:10 | 1727:40 | 300 | 146 | 2968 | | 2 | 17, 1 | EN |
| 372 | 119 | 80/04/28 | 1752:00 | 1752:33 | 100 | 101 | | | 2 | | |
| 373 | 119 | 80/04/28 | 2026:00 | 2026:20 | 30 | 63 | | | 2 | 17, 2 | |
| 374 | 119 | 80/04/28 | 2031:50 | 2032:30 | 50 | 125 | 1114 | | 5 | 17, 2 | DG |
| 375 | 119 | 80/04/28 | 2039:35 | 2040:00 | 254 | 10964 | 1.17E+05 | | 15 | 17, 2 | DG |
| 376 | 119 | 80/04/28 | 2117:30 | 2118:35 | 120 | 200 | 5926 | | 5 | 17, 3 | |
| 377 | 119 | 80/04/28 | 2137:15 | 2138:56 | 110 | 82 | | | 2 | | |
| 378 | 119 | 80/04/28 | 2143:20 | 2143:40 | 60 | 82 | | | 2 | | |
| 379 | 119 | 80/04/28 | 2302:20 | 2302:40 | 180 | 122 | 3790 | | 2 | 17, 4 | |
| 380 | 119 | 80/04/28 | 2332:30 | 2333:50 | 140 | 92 | | | | | |
| 381 | 119 | 80/04/28 | 2353:40 | 2354:07 | 60 | 110 | | | | | |
| 382 | 120 | 80/04/29 | 0031:00 | 0031:10 | 30 | 72 | | | | | |
| 383 | 120 | 80/04/29 | 0034:50 | 0034:58 | 20 | 94 | | | | | |
| 384 | 120 | 80/04/29 | 0348:15 | 0348:20 | 15 | 85 | | | | | |
| 385 | 120 | 80/04/29 | 0355:10 | 0355:50 | 120 | 264 | 4729 | | 2 | 17, 5 | |
| 386 | 120 | 80/04/29 | 0406:40 | 0407:55 | 150 | 663 | 12647 | | 10 | 17, 5 | |
| 387 | 120 | 80/04/29 | 0426:40 | 0427:45 | 140 | 90 | | | | | |
| 388 | 120 | 80/04/29 | 0742:10 | 0742:27 | 100 | 82 | | | | | |
| 389 | 120 | 80/04/29 | 1047:00 | 1049:40 | 180 | 94 | | | | | |
| 390 | 120 | 80/04/29 | 1105:10 | 1105:30 | 20 | 92 | | | | | |
| 391 | 120 | 80/04/29 | 1238:30 | 1239:30 | 130 | 144 | | | 2 | 17, 6 | |
| 392 | 120 | 80/04/29 | 1322:25 | 1322:35 | 15 | 120 | | | 2 | 17, 7 | DG |
| 393 | 120 | 80/04/29 | 1402:42 | 1403:02 | 30 | 300 | 3170 | | 5 | 17, 8 | |
| 394 | 120 | 80/04/29 | 1718:50 | 1720:15 | 170 | 100 | | | 2 | | |
| 395 | 120 | 80/04/29 | 1814:35 | 1815:10 | 125 | 215 | 4150 | 2407 | 4 | 17, 9 | |
| 396 | 120 | 80/04/29 | 2016:10 | 2018:10 | 420 | 275 | 78100 | 2407 | 4 | 17, 10 | |
| 397 | 120 | 80/04/29 | 2158:20 | 2158:50 | 45 | 69 | | | 2 | | |
| 398 | 120 | 80/04/29 | 2337:20 | 2339:55 | 195 | 115 | 1300 | | 4 | 17, 11 | |
| 399 | 121 | 80/04/30 | 0215:10 | 0215:40 | 75 | 160 | 3110 | | 5 | 17, 12 | |
| 400 | 121 | 80/04/30 | 0223:45 | 0223:50 | 25 | 78 | 522 | | 2 | | |
| 401 | 121 | 80/04/30 | 0238:15 | 0238:30 | 40 | 62 | | | 2 | | |
| 402 | 121 | 80/04/30 | 0245:00 | 0245:20 | 60 | 125 | 1040 | | 4 | 17, 13 | |
| 403 | 121 | 80/04/30 | 0345:00 | 0401:50 | 1500 | 110 | | | 15 | 17, 14 | DG |
| 404 | 121 | 80/04/30 | 0543:25 | 0546:20 | 410 | 210 | 22900 | | 2 | 17, 15 | |
| 405 | 121 | 80/04/30 | 0610:30 | 0610:50 | 45 | 80 | | | 2 | | |
| 406 | 121 | 80/04/30 | 0729:00 | 0729:10 | 35 | 90 | | | 3 | | |
| 407 | 121 | 80/04/30 | 0731:15 | 0732:10 | 45 | 82 | | | 2 | | |
| 408 | 121 | 80/04/30 | 0741:10 | 0742:30 | 115 | 79 | | | 2 | | |
| 409 | 121 | 80/04/30 | 0902:20 | 0903:00 | 70 | 75 | | | 2 | | |
| 410 | 121 | 80/04/30 | 1102:10 | 1103:05 | 185 | 195 | 12200 | | 2 | 17, 16 | EN |
| 411 | 121 | 80/04/30 | 1141:40 | 1142:00 | 30 | 100 | | | 2 | | DG |
| 412 | 121 | 80/04/30 | 1407:35 | 1407:45 | 35 | 340 | 4470 | | 5 | 17, 17 | |
| 413 | 121 | 80/04/30 | 1531:35 | 1532:50 | 140 | 185 | 1760 | | 5 | 17, 18 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|---------|
| 414 | 121 | 80/04/30 | 1545:55 | 1548:45 | 440 | 150 | 11500 | | 2 | 17, 19 | EN |
| 415 | 121 | 80/04/30 | 1719:50 | 1720:15 | 40 | 150 | 654 | | 4 | 18, 1 | |
| 416 | 121 | 80/04/30 | 2021:10 | 2022:50 | 310 | 680 | 54000 | 2396 | 6 | 18, 2 | |
| 417 | 122 | 80/05/01 | 0047:20 | 0048:00 | 110 | 80 | | | 2 | | |
| 418 | 122 | 80/05/01 | 0717:00 | 0717:05 | 8 | 80 | | | 2 | | |
| 419 | 122 | 80/05/01 | 1627:00 | 1628:30 | 1100 | 1480 | 2.97E+05 | 2418 | 5 | 18, 3 | SN,ES |
| 420 | 122 | 80/05/01 | 1839:40 | 1841:10 | 135 | 100 | | | 2 | | |
| 421 | 122 | 80/05/01 | 2117:50 | 2119:50 | 450 | 120 | 15000 | | 6 | 18, 5 | |
| 422 | 123 | 80/05/02 | 0030:50 | 0033:45 | 265 | 115 | 4100 | 2423 | | 18, 6 | |
| 423 | 123 | 80/05/02 | 0400:02 | 0402:00 | 115 | 96 | | | 2 | | |
| 424 | 123 | 80/05/02 | 0436:20 | 0436:30 | 30 | 110 | 750 | | 4 | 18, 7 | |
| 425 | 123 | 80/05/02 | 0531:50 | 0532:00 | 20 | 100 | 910 | | 2 | 18, 8 | |
| 426 | 123 | 80/05/02 | 0537:30 | 0538:40 | 80 | 220 | 1920 | | 5 | 18, 8 | |
| 427 | 123 | 80/05/02 | 0553:50 | 0555:20 | 160 | 66 | | | 2 | | |
| 428 | 124 | 80/05/03 | 0204:10 | 0205:30 | 190 | 2080 | 81640 | 2411 | 8 | 18, 9 | |
| 429 | 124 | 80/05/03 | 0355:10 | 0355:25 | 70 | 105 | | | 2 | | |
| 430 | 124 | 80/05/03 | 0419:08 | 0419:20 | 30 | 65 | | | 2 | | |
| 431 | 124 | 80/05/03 | 0722:05 | 0722:12 | 40 | 72 | | | 2 | | |
| 432 | 124 | 80/05/03 | 1312:40 | 1315:10 | 520 | 150 | 22400 | 2418 | 4 | 18, 10 | SN,ES |
| 433 | 124 | 80/05/03 | 1822:30 | 1822:42 | 70 | 88 | | | 2 | | |
| 434 | 124 | 80/05/03 | 1829:40 | 1829:55 | 40 | 60 | | | 2 | | |
| 435 | 124 | 80/05/03 | 2112:55 | 2124:25 | 800 | 130 | 10050 | | 5 | 18, 11 | |
| 436 | 124 | 80/05/03 | 2317:00 | 2317:18 | 130 | 550 | 10900 | | 6 | 18, 12 | |
| 437 | 125 | 80/05/04 | 0041:05 | 0041:35 | 245 | 240 | 6600 | | 5 | 18, 13 | |
| 438 | 125 | 80/05/04 | 0427:30 | 0428:25 | 80 | 90 | | | 4 | | |
| 439 | 125 | 80/05/04 | 1034:42 | 1034:46 | 8 | 100 | | | 2 | | |
| 440 | 125 | 80/05/04 | 1201:30 | 1202:00 | 140 | 122 | 4300 | | 2 | 18, 14 | |
| 441 | 125 | 80/05/04 | 1823:45 | 1824:45 | 240 | 290 | 11919 | 2411 | 5 | 18, 15 | |
| 442 | 125 | 80/05/04 | 2014:45 | 2014:55 | 25 | 122 | 651 | | 5 | 18, 16 | |
| 443 | 125 | 80/05/04 | 2020:00 | 2020:35 | 130 | 65 | | | 2 | | |
| 444 | 125 | 80/05/04 | 2111:00 | 2112:00 | 550 | 118 | 14458 | 2418 | 10 | 18, 17 | M,SN,AX |
| 445 | 125 | 80/05/04 | 2203:10 | 2203:48 | 60 | 275 | 3615 | 2418 | 10 | 18, 18 | |
| 446 | 125 | 80/05/04 | 2335:04 | 2338:55 | 250 | 75 | | 2411 | 2 | | |
| 447 | 126 | 80/05/05 | 0256:20 | 0256:55 | 55 | 260 | 2408 | | 5 | 18, 19 | EN |
| 448 | 126 | 80/05/05 | 0407:00 | 0408:10 | 100 | 133 | 1679 | 2418 | 5 | 18, 20 | |
| 449 | 126 | 80/05/05 | 0430:00 | 0430:30 | 60 | 52 | | | 2 | | |
| 450 | 126 | 80/05/05 | 0525:04 | 0525:12 | 50 | 82 | | 2418 | 2 | | |
| 451 | 126 | 80/05/05 | 1050:47 | 1051:15 | 90 | 76 | | | 2 | | |
| 452 | 126 | 80/05/05 | 2109:00 | 2111:40 | 220 | 73 | | | 5 | | |
| 453 | 126 | 80/05/05 | 2307:26 | 2307:46 | 50 | 69 | | | | | |
| 454 | 126 | 80/05/05 | 2333:10 | 2333:29 | 60 | 90 | | | | | |
| 455 | 127 | 80/05/06 | 0406:40 | 0407:04 | 60 | 140 | | | 5 | | |
| 456 | 127 | 80/05/06 | 1808:30 | 1809:48 | 155 | 400 | | | 5 | | ND,DG |
| 457 | 128 | 80/05/07 | 0240:00 | 0240:50 | 90 | 68 | | | | | |
| 458 | 128 | 80/05/07 | 0403:08 | 0403:39 | 470 | 2600 | 14062 | | 15 | 19, 1 | M |
| 459 | 128 | 80/05/07 | 1032:59 | 1034:02 | 180 | 130 | | | 2 | | |
| 460 | 128 | 80/05/07 | 1307:04 | 1308:33 | 145 | 113 | | | 5 | | |
| 461 | 128 | 80/05/07 | 1455:19 | 1456:06 | 150 | 3600 | 66419 | | 10 | 19, 2 | M |
| 462 | 128 | 80/05/07 | 1714:11 | 1714:30 | 75 | 66 | | | 2 | | |
| 463 | 128 | 80/05/07 | 2118:04 | 2118:16 | 30 | 54 | | | 2 | | |
| 464 | 128 | 80/05/07 | 2321:15 | 2323:10 | 545 | 220 | 13914 | 2418 | 5 | 19, 5 | |
| 465 | 129 | 80/05/08 | 0018:15 | 0018:30 | 30 | 78 | | | 3 | | |
| 466 | 129 | 80/05/08 | 0056:25 | 0057:35 | 385 | 3550 | 1.94E+05 | 2418 | 12 | 19, 6 | M |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 467 | 129 | 80/05/08 | 0419:37 | 0419:50 | 94 | 460 | 6260 | | 5 | 19, 8 | |
| 468 | 129 | 80/05/08 | 0423:16 | 0423:25 | 72 | 71 | | | 2 | 19, 8 | |
| 469 | 129 | 80/05/08 | 0843:04 | 0843:20 | 45 | 130 | 929 | | 4 | 19, 9 | |
| 470 | 129 | 80/05/08 | 0909:38 | 0910:30 | 130 | 110 | | | 3 | | |
| 471 | 129 | 80/05/08 | 1340:00 | 1342:00 | 350 | 440 | 39340 | 2418 | 8 | 19, 10 | |
| 472 | 129 | 80/05/08 | 1404:28 | 1404:50 | 45 | 85 | | 2418 | 3 | | EN |
| 473 | 129 | 80/05/08 | 1935:50 | 1937:10 | 440 | 1980 | 66000 | 2418 | 7 | 19, 11 | M |
| 474 | 129 | 80/05/08 | 2104:45 | 2105:30 | 100 | 85 | | | 5 | | |
| 475 | 129 | 80/05/08 | 2133:10 | 2134:00 | 280 | 85 | 3940 | | 2 | 19, 13 | |
| 476 | 130 | 80/05/09 | 0338:55 | 0339:00 | 20 | 115 | 530 | | 2 | 19, 14 | |
| 477 | 130 | 80/05/09 | 0531:30 | 0532:20 | 100 | 80 | | | 2 | | |
| 478 | 130 | 80/05/09 | 0541:25 | 0541:50 | 60 | 82 | | | 2 | | |
| 479 | 130 | 80/05/09 | 0711:05 | 0712:35 | 635 | 10800 | 6.94E+05 | 2418 | 15 | 20, 1 | M |
| 480 | 130 | 80/05/09 | 1032:40 | 1035:00 | 195 | 135 | 2210 | | 2 | 20, 3 | |
| 481 | 130 | 80/05/09 | 1521:55 | 1523:25 | 140 | 110 | | | 2 | 20, 4 | ND |
| 482 | 130 | 80/05/09 | 2007:41 | 2008:09 | 600 | 70 | | | | | |
| 483 | 131 | 80/05/10 | 0200:09 | 0201:29 | 360 | 68 | | 2423 | 2 | | |
| 484 | 131 | 80/05/10 | 0518:00 | 0518:50 | 80 | 106 | 1319 | | 3 | 20, 5 | |
| 485 | 131 | 80/05/10 | 0526:25 | 0526:50 | 80 | 135 | 1483 | | 2 | 20, 5 | |
| 486 | 131 | 80/05/10 | 1505:10 | 1505:58 | 64 | 55 | | | 2 | | ND |
| 487 | 131 | 80/05/10 | 1757:12 | 1757:13 | 200 | 440 | 7768 | | 10 | 20, 6 | |
| 488 | 131 | 80/05/10 | 1951:28 | 1952:08 | 230 | 1750 | 96102 | | 10 | 20, 7 | |
| 489 | 131 | 80/05/10 | 2004:20 | 2004:50 | 60 | 100 | | | | | |
| 490 | 131 | 80/05/10 | 2015:00 | 2015:05 | 60 | 100 | | | 2 | | |
| 491 | 131 | 80/05/10 | 2021:10 | 2021:20 | 180 | 200 | 5031 | 2418 | 10 | 20, 8 | |
| 495 | 133 | 80/05/12 | 0555:40 | 0557:50 | 220 | 150 | 2138 | | 5 | 20, 10 | |
| 492 | 133 | 80/05/12 | 1013:40 | 1014:36 | 130 | 610 | 15163 | | 5 | 20, 9 | |
| 493 | 133 | 80/05/12 | 1339:45 | 1340:18 | 60 | 82 | | 2418 | | | |
| 494 | 133 | 80/05/12 | 1628:48 | 1629:17 | 80 | 87 | | | | | |
| 496 | 134 | 80/05/13 | 0210:50 | 0211:15 | 60 | 42 | | | | | |
| 501 | 135 | 80/05/14 | 0853:00 | 0853:20 | 50 | 90 | | | | | |
| 497 | 135 | 80/05/14 | 1005:42 | 1006:00 | 50 | 60 | | | 2 | | |
| 498 | 135 | 80/05/14 | 1009:19 | 1009:39 | 125 | 40 | | | 2 | | |
| 499 | 135 | 80/05/14 | 1256:34 | 1257:25 | 960 | 1500 | 1.18E+05 | 2456 | 14 | 20, 11 | |
| 500 | 135 | 80/05/14 | 1332:00 | 1332:20 | 60 | 65 | | | | | |
| 4268 | 135 | 80/05/14 | 1437:50 | 1438:05 | 30 | 64 | | | 5 | | I |
| 4269 | 135 | 80/05/14 | 1517:35 | 1520:19 | 280 | 78 | | | 2 | 143, 11 | I |
| 502 | 135 | 80/05/14 | 1920:00 | 1920:18 | 100 | 720 | 14381 | | 5 | 20, 12 | |
| 503 | 136 | 80/05/15 | 1956:57 | 1959:56 | 240 | 87 | | | 2 | | |
| 504 | 136 | 80/05/15 | 2139:20 | 2139:58 | 60 | 104 | | | 2 | | |
| 505 | 137 | 80/05/16 | 0012:40 | 0013:20 | 100 | 160 | 2262 | | 2 | 20, 13 | |
| 506 | 137 | 80/05/16 | 2058:20 | 2058:30 | 80 | 73 | | | 2 | | |
| 507 | 137 | 80/05/16 | 2108:10 | 2108:20 | 40 | 93 | | | 5 | | |
| 508 | 137 | 80/05/16 | 2230:20 | 2230:43 | 320 | 164 | 15466 | | 5 | 20, 14 | |
| 509 | 137 | 80/05/16 | 2243:20 | 2244:04 | 260 | 123 | 1442 | | 2 | 20, 14 | |
| 510 | 137 | 80/05/16 | 2250:00 | 2250:42 | 240 | 108 | 2777 | | 5 | 20, 14 | |
| 511 | 138 | 80/05/17 | 0144:00 | 0144:32 | 80 | 250 | 2384 | | 5 | 20, 15 | |
| 512 | 138 | 80/05/17 | 0202:25 | 0202:45 | 480 | 108 | | | 2 | | |
| 513 | 138 | 80/05/17 | 0221:04 | 0221:54 | 100 | 80 | | | 2 | | |
| 514 | 138 | 80/05/17 | 0540:19 | 0540:57 | 70 | 87 | | | 2 | | |
| 515 | 138 | 80/05/17 | 0635:51 | 0637:07 | 185 | 96 | | | | | SA |
| 516 | 138 | 80/05/17 | 1009:20 | 1012:45 | 500 | 107 | | 2455 | 5 | | |
| 517 | 138 | 80/05/17 | 1322:55 | 1323:17 | 35 | 250 | 1507 | | 5 | 20, 16 | |

ORIGINAL PAGE IS
OF POOR QUALITY

25

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 518 | 139 | 80/05/18 | 0349:20 | 0350:00 | 160 | 87 | | | 2 | | |
| 4270 | 139 | 80/05/18 | 0817:50 | 0819:40 | 1630 | 122 | 69400 | | 5 | 143, 12 | M, I |
| 519 | 139 | 80/05/18 | 1254:08 | 1254:45 | 90 | 115 | | | 2 | | |
| 520 | 139 | 80/05/18 | 1342:20 | 1344:48 | 250 | 87 | 1193 | | 2 | | |
| 521 | 140 | 80/05/19 | 0538:40 | 0539:18 | 135 | 420 | 11207 | | 5 | 21, 1 | |
| 522 | 140 | 80/05/19 | 1452:20 | 1452:42 | 40 | 108 | | | 5 | | |
| 523 | 140 | 80/05/19 | 1520:20 | 1520:47 | 120 | 98 | | | 5 | | |
| 524 | 140 | 80/05/19 | 1736:04 | 1737:04 | 87 | 42 | | | 2 | | |
| 525 | 141 | 80/05/20 | 0210:00 | 0211:20 | 110 | 85 | 522 | | 2 | 21, 2 | |
| 526 | 141 | 80/05/20 | 0216:00 | 0218:20 | 380 | 171 | 7225 | | 5 | 21, 2 | |
| 527 | 141 | 80/05/20 | 0629:44 | 0630:40 | 65 | 114 | 1955 | | 2 | 21, 3 | |
| 528 | 141 | 80/05/20 | 0956:45 | 0957:12 | 50 | 68 | | | 2 | | |
| 529 | 141 | 80/05/20 | 1117:50 | 1120:00 | 90 | 76 | | | 2 | | |
| 530 | 141 | 80/05/20 | 1205:40 | 1207:39 | 117 | 71 | | | 2 | | |
| 531 | 141 | 80/05/20 | 1422:25 | 1426:20 | 3600 | 65 | | | 2 | | SN |
| 532 | 141 | 80/05/20 | 1939:20 | 1939:56 | 60 | 198 | 1351 | | 5 | 21, 4 | |
| 533 | 141 | 80/05/20 | 2304:25 | 2304:52 | 51 | 91 | | | 2 | | |
| 534 | 142 | 80/05/21 | 0324:40 | 0325:41 | 160 | 46 | | | 2 | | |
| 535 | 142 | 80/05/21 | 0519:42 | 0520:28 | 126 | 32 | | | 2 | | |
| 536 | 142 | 80/05/21 | 1206:48 | 1207:48 | 100 | 39 | | | 2 | | |
| 537 | 142 | 80/05/21 | 1448:15 | 1448:40 | 300 | 300 | 14867 | | 2 | 21, 6 | |
| 538 | 142 | 80/05/21 | 2053:35 | 2055:53 | 2376 | 14300 | 3.01E+06 | | 15 | 21, 7 | M, ES |
| 539 | 143 | 80/05/22 | 0200:30 | 0201:26 | 90 | 87 | | | 2 | | |
| 540 | 143 | 80/05/22 | 2053:40 | 2100:15 | 665 | 171 | | 2465 | 2 | 21, 8 | |
| 541 | 143 | 80/05/22 | 2257:10 | 2257:30 | 30 | 84 | | | 2 | | |
| 542 | 144 | 80/05/23 | 0950:30 | 0950:40 | 10 | 95 | | | 2 | | |
| 543 | 144 | 80/05/23 | 0953:50 | 0954:10 | 30 | 81 | | | 2 | | |
| 544 | 144 | 80/05/23 | 1023:50 | 1024:00 | 10 | 76 | | | 2 | | |
| 545 | 144 | 80/05/23 | 1156:40 | 1156:50 | 30 | 114 | | | 2 | | |
| 546 | 144 | 80/05/23 | 1440:40 | 1441:15 | 100 | 345 | 8487 | 2470 | 5 | 21, 9 | |
| 547 | 144 | 80/05/23 | 1444:45 | 1444:52 | 15 | 75 | | | 2 | 21, 9 | |
| 548 | 144 | 80/05/23 | 1445:40 | 1445:50 | 40 | 160 | 1255 | | 2 | 21, 9 | |
| 549 | 144 | 80/05/23 | 1450:18 | 1450:47 | 120 | 61 | | | | | |
| 550 | 144 | 80/05/23 | 2258:47 | 2259:10 | 90 | 204 | | | 2 | 21, 10 | |
| 551 | 144 | 80/05/23 | 2302:40 | 2302:45 | 10 | 6380 | | | 14 | 21, 10 | AX |
| 552 | 145 | 80/05/24 | 0018:12 | 0018:30 | 100 | 147 | | | 2 | | |
| 553 | 145 | 80/05/24 | 0047:30 | 0050:30 | 260 | 185 | 9339 | | 2 | 21, 11 | ES |
| 554 | 145 | 80/05/24 | 0622:40 | 0624:50 | 400 | 102 | 3877 | | 2 | 21, 12 | SN |
| 555 | 145 | 80/05/24 | 0652:50 | 0653:40 | 160 | 149 | 3536 | | 2 | 21, 13 | |
| 556 | 145 | 80/05/24 | 0829:50 | 0830:20 | 50 | 85 | | | 2 | | |
| 557 | 145 | 80/05/24 | 0832:40 | 0833:30 | 70 | 117 | | | 2 | | |
| 558 | 145 | 80/05/24 | 1135:50 | 1135:50 | 25 | 74 | | | 2 | | |
| 559 | 145 | 80/05/24 | 1316:30 | 1316:50 | 40 | 48 | | | 2 | | |
| 560 | 145 | 80/05/24 | 1319:10 | 1319:25 | 30 | 70 | | | 2 | | |
| 561 | 145 | 80/05/24 | 1505:00 | 1510:10 | 360 | 83 | | | 5 | 22, 1 | AX |
| 562 | 146 | 80/05/25 | 0032:50 | 0038:20 | 780 | 70 | 2780 | | 2 | 22, 2 | |
| 563 | 146 | 80/05/25 | 0127:30 | 0130:21 | 880 | 198 | | | 5 | 22, 3 | SN, ES |
| 564 | 146 | 80/05/25 | 0327:10 | 0327:50 | 110 | 212 | 5135 | | 5 | 22, 4 | |
| 565 | 146 | 80/05/25 | 1238:50 | 1239:20 | 60 | 70 | | | 2 | | |
| 566 | 146 | 80/05/25 | 1550:20 | 1550:40 | 80 | 90 | | | 2 | | SN |
| 567 | 146 | 80/05/25 | 1727:30 | 1727:50 | 65 | 61 | | | 2 | | |
| 568 | 146 | 80/05/25 | 1729:30 | 1729:35 | 35 | 66 | | | 2 | | |
| 569 | 146 | 80/05/25 | 2052:40 | 2052:50 | 25 | 77 | | | 5 | | |

ORIGINAL FORM IS
OF POOR QUALITY

26

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 570 | 146 | 80/05/25 | 2354:20 | 2356:00 | 670 | 146 | 8537 | | 5 | 22, 5 | |
| 571 | 147 | 80/05/26 | 1304:06 | 1305:38 | 170 | 80 | | | 2 | | |
| 572 | 147 | 80/05/26 | 1424:13 | 1425:39 | 280 | 118 | 1280 | | 2 | 22, 6 | |
| 573 | 147 | 80/05/26 | 1613:44 | 1614:58 | 135 | 77 | | | 2 | | |
| 574 | 147 | 80/05/26 | 1727:47 | 1728:08 | 140 | 260 | 5502 | | 5 | 22, 7 | |
| 575 | 148 | 80/05/27 | 0501:00 | 0502:32 | 168 | 92 | | | 5 | | |
| 576 | 148 | 80/05/27 | 0821:00 | 0821:45 | 215 | 258 | 10780 | | 5 | 22, 8 | |
| 577 | 148 | 80/05/27 | 1600:01 | 1600:40 | 147 | 590 | 16109 | | 5 | 22, 9 | |
| 578 | 148 | 80/05/27 | 2103:41 | 2104:38 | 140 | 990 | 26857 | | 5 | 23, 1 | |
| 579 | 149 | 80/05/28 | 0209:08 | 0209:48 | 95 | 375 | 12128 | | 5 | 23, 2 | |
| 580 | 149 | 80/05/28 | 0213:20 | 0215:16 | 280 | 2334 | 1.18E+05 | | 5 | 23, 2 | |
| 581 | 149 | 80/05/28 | 0938:21 | 0938:39 | 55 | 78 | | | 2 | | |
| 582 | 149 | 80/05/28 | 1005:17 | 1005:23 | 20 | 98 | | | 2 | | |
| 583 | 149 | 80/05/28 | 1007:44 | 1008:29 | 70 | 73 | | | 2 | | |
| 584 | 149 | 80/05/28 | 1418:50 | 1419:25 | 90 | 595 | 16384 | | 5 | 23, 3 | |
| 585 | 149 | 80/05/28 | 1550:00 | 1552:20 | 1090 | 315 | 35701 | | 10 | 23, 4 | |
| 586 | 149 | 80/05/28 | 1719:58 | 1720:20 | 700 | 513 | 97500 | | 5 | 23, 5 | SN |
| 587 | 149 | 80/05/28 | 2207:30 | 2207:45 | 403 | 228 | 18661 | | 2 | 23, 6 | |
| 588 | 149 | 80/05/28 | 2219:25 | 2219:55 | 92 | 107 | | | 2 | 23, 6 | |
| 589 | 149 | 80/05/28 | 2343:30 | 2343:30 | 1070 | 1558 | | | 15 | | SN, ND |
| 590 | 150 | 80/05/29 | 0332:52 | 0334:41 | 240 | 93 | 1125 | | 2 | 23, 7 | |
| 591 | 150 | 80/05/29 | 0339:55 | 0340:20 | 600 | 89 | | | 5 | 23, 7 | |
| 592 | 150 | 80/05/29 | 0509:20 | 0510:50 | 1220 | 755 | 64502 | | 11 | 23, 8 | |
| 593 | 150 | 80/05/29 | 0643:50 | 0644:10 | 40 | 88 | | | 2 | | |
| 594 | 150 | 80/05/29 | 0755:35 | 0757:20 | 250 | 84 | | | 2 | 23, 9 | |
| 595 | 150 | 80/05/29 | 0947:50 | 0948:50 | 90 | 82 | | | 5 | | |
| 596 | 150 | 80/05/29 | 1005:50 | 1006:20 | 50 | 79 | | | 5 | | |
| 597 | 150 | 80/05/29 | 1111:50 | 1112:30 | 80 | 76 | | | 2 | | |
| 598 | 150 | 80/05/29 | 1146:40 | 1147:10 | 50 | 80 | | | 2 | | |
| 599 | 150 | 80/05/29 | 2351:40 | 2352:05 | 70 | 99 | | | 2 | | |
| 600 | 151 | 80/05/30 | 0201:12 | 0201:25 | 30 | 120 | | | 5 | | |
| 601 | 151 | 80/05/30 | 1055:50 | 1056:45 | | 68 | | | 2 | | |
| 602 | 151 | 80/05/30 | 2051:22 | 2052:24 | 114 | 117 | 1789 | | 5 | 24, 1 | |
| 603 | 152 | 80/05/31 | 0612:20 | 0612:39 | 145 | 83 | | | 2 | | |
| 604 | 152 | 80/05/31 | 0743:48 | 0744:18 | 110 | 253 | 5652 | | 5 | 24, 2 | |
| 605 | 152 | 80/05/31 | 2047:40 | 2048:20 | 70 | 83 | | | 2 | | |
| 606 | 153 | 80/06/01 | 0029:00 | 0029:10 | 30 | 97 | | | 5 | | |
| 607 | 153 | 80/06/01 | 1719:00 | 1719:30 | 170 | 74 | | | | | SN |
| 608 | 153 | 80/06/01 | 1923:00 | 1926:20 | 190 | 195 | 13312 | | 2 | 24, 3 | ES |
| 609 | 153 | 80/06/01 | 2057:10 | 2057:30 | 40 | 106 | | | 2 | | |
| 610 | 153 | 80/06/01 | 2058:00 | 2058:20 | 60 | 120 | | | 5 | | |
| 611 | 154 | 80/06/02 | 0012:30 | 0013:20 | 65 | 148 | | | 2 | | |
| 612 | 154 | 80/06/02 | 0306:20 | 0306:50 | 40 | 92 | | | 2 | | |
| 613 | 154 | 80/06/02 | 0821:00 | 0822:10 | 100 | 179 | 2964 | | 2 | 24, 4 | |
| 614 | 154 | 80/06/02 | 0917:50 | 0918:30 | 380 | 85 | | | 2 | 24 | |
| 615 | 154 | 80/06/02 | 0933:00 | 0933:25 | 95 | 77 | | | 2 | | |
| 616 | 154 | 80/06/02 | 1225:05 | 1225:25 | 30 | 82 | | | 2 | | |
| 617 | 154 | 80/06/02 | 1406:50 | 1407:00 | 25 | 75 | | | 2 | | |
| 618 | 154 | 80/06/02 | 1549:30 | 1550:00 | 55 | 77 | | | 2 | | |
| 619 | 154 | 80/06/02 | 2357:42 | 2358:22 | 108 | 86 | | | 2 | | |
| 620 | 155 | 80/06/03 | 0013:18 | 0017:07 | 383 | 88 | | | 2 | | |
| 621 | 155 | 80/06/03 | 0740:04 | 0741:41 | 399 | 137 | 3407 | | 5 | 24, 6 | |
| 622 | 155 | 80/06/03 | 0753:54 | 0754:52 | 510 | 106 | 6606 | | 5 | 24, 6 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME H:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 623 | 155 | 80/06/03 | 0803:43 | 0807:24 | 551 | 144 | 19427 | | 3 | 24, 6 | |
| 624 | 155 | 80/06/03 | 0934:13 | 0935:23 | 102 | 57 | | | 2 | | |
| 625 | 155 | 80/06/03 | 0939:03 | 0942:08 | 362 | 197 | 12250 | | 5 | 24, 7 | |
| 626 | 155 | 80/06/03 | 1139:12 | 1142:20 | 490 | 908 | 69495 | | 5 | 24, 8 | |
| 627 | 155 | 80/06/03 | 1411:58 | 1414:04 | 337 | 336 | 23231 | | 3 | 24, 9 | |
| 628 | 155 | 80/06/03 | 2042:56 | 2043:18 | 38 | 90 | | | 2 | | |
| 629 | 155 | 80/06/03 | 2100:34 | 2100:57 | 130 | 137 | 1305 | | 2 | 24, 10 | |
| 630 | 155 | 80/06/03 | 2103:40 | 2104:06 | 80 | 90 | | | 2 | 24, 10 | |
| 631 | 156 | 80/06/04 | 0002:05 | 0003:16 | 350 | 166 | 12497 | | 2 | 24, 11 | |
| 632 | 156 | 80/06/04 | 0015:30 | 0016:28 | 264 | 97 | 2340 | | 2 | 25, 1 | |
| 633 | 156 | 80/06/04 | 0207:49 | 0208:43 | 90 | 112 | 1523 | | 2 | 25, 2 | |
| 634 | 156 | 80/06/04 | 0653:56 | 0654:37 | 279 | 35200 | 1.37E+06 | | 15 | 25, 3 | |
| 635 | 156 | 80/06/04 | 0751:50 | 0834:14 | 2539 | 568 | 2.63E+05 | | 10 | 25, 4 | EN |
| 636 | 156 | 80/06/04 | 0907:53 | 0911:02 | 480 | 104 | 7110 | | 2 | 25, 5 | |
| 637 | 156 | 80/06/04 | 0954:31 | 0956:10 | 213 | 77 | | | 2 | | |
| 638 | 156 | 80/06/04 | 1054:00 | 1054:40 | 80 | 128 | | | 2 | | |
| 639 | 156 | 80/06/04 | 1405:40 | 1406:40 | 120 | 101 | 1232 | | 2 | 25, 6 | |
| 640 | 156 | 80/06/04 | 1533:40 | 1534:05 | 30 | 128 | | | 5 | | |
| 641 | 156 | 80/06/04 | 1738:00 | 1738:10 | 40 | 131 | | | 2 | | |
| 642 | 156 | 80/06/04 | 2057:45 | 2058:05 | 30 | 80 | | | 2 | | |
| 643 | 157 | 80/06/05 | 0021:50 | 0026:10 | 710 | 190 | 28700 | | 2 | 25, 7 | |
| 644 | 157 | 80/06/05 | 0128:30 | 0129:25 | 90 | 109 | | | 2 | | |
| 645 | 157 | 80/06/05 | 0246:50 | 0247:00 | 10 | 130 | | | 5 | | |
| 646 | 157 | 80/06/05 | 0419:30 | 0422:00 | 210 | 85 | | | 2 | | |
| 647 | 157 | 80/06/05 | 0448:10 | 0448:40 | 150 | 70 | | | 2 | 25, 8 | |
| 648 | 157 | 80/06/05 | 0453:20 | 0454:00 | 230 | 160 | 3219 | | 2 | 25, 8 | |
| 649 | 157 | 80/06/05 | 0604:40 | 0605:50 | 160 | 220 | 5439 | | 5 | 25, 9 | |
| 650 | 157 | 80/06/05 | 0629:30 | 0629:35 | 90 | 70 | | | 2 | | |
| 651 | 157 | 80/06/05 | 0645:20 | 0645:40 | 50 | 525 | 6393 | | 5 | 25, 10 | |
| 652 | 157 | 80/06/05 | 0652:00 | 0653:00 | 195 | 75 | | | 2 | | |
| 653 | 157 | 80/06/05 | 0954:10 | 0954:40 | 60 | 95 | | | 2 | | |
| 654 | 157 | 80/06/05 | 1135:40 | 1136:10 | 210 | 120 | 5121 | | 2 | 25, 11 | |
| 655 | 157 | 80/06/05 | 1224:50 | 1225:10 | 40 | 90 | | | 2 | | |
| 656 | 157 | 80/06/05 | 1314:10 | 1314:30 | 40 | 100 | | | 2 | | |
| 657 | 157 | 80/06/05 | 1359:30 | 1400:30 | 110 | 170 | 1474 | | 5 | 25, 12 | |
| 658 | 157 | 80/06/05 | 2027:40 | 2028:40 | 90 | 132 | | | 2 | | |
| 659 | 157 | 80/06/05 | 2031:56 | 2032:10 | 20 | 105 | | | 5 | | |
| 660 | 157 | 80/06/05 | 2039:20 | 2039:30 | 30 | 104 | | | 2 | | |
| 661 | 157 | 80/06/05 | 2221:10 | 2221:20 | 30 | 88 | | | 2 | | |
| 662 | 157 | 80/06/05 | 2230:05 | 2230:20 | 200 | 164 | 2482 | | 5 | 25, 13 | |
| 663 | 157 | 80/06/05 | 2339:30 | 2339:40 | 20 | 131 | | | 2 | | |
| 664 | 157 | 80/06/05 | 2340:20 | 2342:30 | 220 | 96 | 3017 | | 2 | 26, 1 | ND |
| 665 | 158 | 80/06/06 | 0003:35 | 0005:20 | 166 | 81 | | | 2 | | |
| 666 | 158 | 80/06/06 | 0018:40 | 0019:20 | 94 | 100 | | | 2 | | |
| 667 | 158 | 80/06/06 | 0140:45 | 0141:20 | 87 | 166 | | | 2 | | |
| 668 | 158 | 80/06/06 | 0244:30 | 0246:00 | 227 | 177 | 3564 | | 5 | 26, 2 | |
| 669 | 158 | 80/06/06 | 0341:21 | 0344:18 | 245 | 216 | 4199 | | 2 | 26, 3 | |
| 670 | 158 | 80/06/06 | 0434:42 | 0435:02 | 45 | 91 | | | 2 | | |
| 671 | 158 | 80/06/06 | 0456:30 | 0456:45 | 91 | 79 | | | 2 | | |
| 672 | 158 | 80/06/06 | 0951:45 | 0952:29 | 85 | 194 | 2384 | | 5 | 26, 4 | |
| 673 | 158 | 80/06/06 | 1125:40 | 1126:34 | 280 | 250 | 2877 | 2495 | 5 | 26, 5 | |
| 674 | 158 | 80/06/06 | 1142:25 | 1142:33 | 35 | 8466 | 47208 | 2490 | 15 | 26, 6 | |
| 675 | 158 | 80/06/06 | 1217:02 | 1217:18 | 20 | 74 | | | 5 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 676 | 158 | 80/06/06 | 1355:30 | 1356:40 | 420 | 116 | 4032 | 2490 | 2 | 26, 7 | |
| 677 | 158 | 80/06/06 | 1550:40 | 1552:20 | 130 | 296 | 4581 | 2495 | 5 | 26, 8 | ES |
| 678 | 158 | 80/06/06 | 1710:30 | 1722:10 | 1474 | 201 | 13393 | 2495 | 5 | 26, 9 | |
| 679 | 158 | 80/06/06 | 2334:15 | 2334:47 | 93 | 3558 | 29485 | 2495 | 10 | 26, 10 | M |
| 680 | 158 | 80/06/06 | 2344:33 | 2345:01 | 94 | 102 | 703 | | 2 | 26, 12 | |
| 681 | 158 | 80/06/06 | 2348:31 | 2349:14 | 65 | 74 | | | 2 | | ND |
| 682 | 159 | 80/06/07 | 0027:19 | 0027:26 | 21 | 85 | | | 2 | | |
| 683 | 159 | 80/06/07 | 0116:24 | 0117:27 | 368 | 8365 | 4.55E+05 | 2495 | 15 | 27, 1 | M |
| 684 | 159 | 80/06/07 | 0244:16 | 0244:43 | 56 | 79 | | | 5 | | |
| 685 | 159 | 80/06/07 | 0247:57 | 0248:54 | 100 | 66 | | | 5 | | |
| 686 | 159 | 80/06/07 | 0251:49 | 0252:30 | 97 | 68 | | 2495 | 2 | 27, 3 | |
| 687 | 159 | 80/06/07 | 0253:41 | 0254:39 | 321 | 144 | 3331 | 2495 | 5 | 27, 3 | |
| 688 | 159 | 80/06/07 | 0310:51 | 0312:15 | 691 | 39391 | 1.33E+06 | 2495 | 15 | 27, 4 | M |
| 689 | 159 | 80/06/07 | 0554:02 | 0554:17 | 47 | 97 | 255 | | 5 | 27, 5 | |
| 690 | 159 | 80/06/07 | 0615:15 | 0615:34 | 51 | 163 | 2553 | | 5 | 27, 6 | |
| 691 | 159 | 80/06/07 | 0725:24 | 0725:45 | 104 | 398 | 4547 | 2495 | 10 | 27, 7 | SN |
| 692 | 159 | 80/06/07 | 1123:11 | 1125:40 | 200 | 103 | | 2495 | 2 | 27, 8 | SA |
| 693 | 159 | 80/06/07 | 1228:37 | 1229:39 | 109 | 113 | | 2495 | 2 | | ES |
| 694 | 159 | 80/06/07 | 1358:49 | 1359:05 | 49 | 48 | | | 2 | | |
| 695 | 159 | 80/06/07 | 1727:48 | 1727:58 | 29 | 78 | | | 2 | | |
| 696 | 160 | 80/06/08 | 0427:05 | 0428:10 | 495 | 438 | 8027 | | 5 | 27, 9 | |
| 697 | 160 | 80/06/08 | 0616:30 | 0617:10 | 64 | 78 | | | 2 | | |
| 698 | 160 | 80/06/08 | 0727:15 | 0727:30 | 30 | 142 | | | 5 | | |
| 699 | 160 | 80/06/08 | 1036:10 | 1036:45 | 750 | 347 | 81640 | | 5 | 27, 10 | SN, ES |
| 700 | 160 | 80/06/08 | 1534:50 | 1535:00 | 20 | 84 | | | 2 | | |
| 701 | 160 | 80/06/08 | 1900:15 | 1900:18 | 11 | 102 | | | 2 | | |
| 702 | 161 | 80/06/09 | 0011:04 | 0011:22 | 63 | 128 | 2212 | | 5 | 27, 11 | |
| 703 | 161 | 80/06/09 | 0108:01 | 0108:18 | 49 | 74 | | | 2 | | |
| 704 | 161 | 80/06/09 | 0113:08 | 0113:33 | 39 | 106 | 375 | | 5 | 27, 12 | |
| 705 | 161 | 80/06/09 | 0141:49 | 0142:42 | 70 | 72 | | | 2 | | |
| 706 | 161 | 80/06/09 | 0251:16 | 0251:30 | 27 | 1102 | 6073 | | 10 | 28, 1 | |
| 707 | 161 | 80/06/09 | 0255:22 | 0257:16 | 161 | 174 | 3515 | | 5 | 28, 1 | M |
| 708 | 162 | 80/06/10 | 0252:56 | 0254:53 | 180 | 156 | 4640 | | 2 | 28, 3 | |
| 709 | 162 | 80/06/10 | 0802:44 | 0803:56 | 70 | 73 | | | 2 | | |
| 710 | 164 | 80/06/12 | 0130:10 | 0130:30 | 43 | 141 | | | 5 | | |
| 4275 | 164 | 80/06/12 | 0559:25 | 0559:46 | 80 | 93 | | | 2 | | I |
| 711 | 164 | 80/06/12 | 2206:10 | 2207:25 | 140 | 453 | 5494 | | 5 | 28, 4 | |
| 712 | 165 | 80/06/13 | 0256:56 | 0257:07 | 20 | 138 | 1913 | | 2 | 28, 5 | |
| 713 | 165 | 80/06/13 | 0257:56 | 0258:28 | 80 | 388 | 10759 | | 5 | 28, 5 | |
| 714 | 165 | 80/06/13 | 0621:21 | 0622:25 | 140 | 112 | 2412 | | 2 | 28, 6 | |
| 715 | 165 | 80/06/13 | 0811:35 | 0812:22 | 640 | 227 | 25687 | | 5 | 28, 7 | |
| 716 | 165 | 80/06/13 | 2232:20 | 2234:03 | 200 | 1524 | 1.22E+05 | | 5 | 28, 8 | M, EN |
| 4299 | 166 | 80/06/14 | 0111:20 | 0114:00 | 862 | 83 | 3056 | | 2 | 144, 7 | I |
| 717 | 166 | 80/06/14 | 0623:35 | 0631:34 | 580 | 266 | 10912 | | 5 | 28, 9 | |
| 718 | 166 | 80/06/14 | 1343:25 | 1347:30 | 600 | 108 | 24841 | | 5 | 28, 10 | ES |
| 719 | 166 | 80/06/14 | 1652:00 | 1701:40 | 565 | 508 | 21518 | | 10 | 28, 11 | |
| 720 | 167 | 80/06/15 | 0410:05 | 0414:15 | 480 | 88 | 4141 | | 10 | 28, 12 | |
| 721 | 167 | 80/06/15 | 0423:40 | 0426:25 | 790 | 438 | 53530 | | 5 | 28, 12 | |
| 722 | 167 | 80/06/15 | 0800:20 | 0800:40 | 65 | 174 | | | 2 | | |
| 723 | 167 | 80/06/15 | 0802:40 | 0802:55 | 55 | 76 | | | 2 | | |
| 724 | 167 | 80/06/15 | 0813:10 | 0813:35 | 87 | 100 | | | 2 | | |
| 725 | 167 | 80/06/15 | 1131:30 | 1132:15 | 110 | 195 | 4380 | | 5 | 28, 13 | EN |
| 726 | 167 | 80/06/15 | 1305:05 | 1305:25 | 91 | 40 | | | 2 | | |

ORIGINAL TABLE
OF POOR QUALITY

29

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 727 | 167 | 80/06/15 | 1439:30 | 1439:55 | 75 | 99 | | | 2 | | |
| 728 | 167 | 80/06/15 | 1530:25 | 1531:55 | 100 | 90 | | | 2 | | |
| 729 | 167 | 80/06/15 | 1844:03 | 1844:57 | 178 | 307 | 9506 | | 5 | 28, 14 | |
| 730 | 167 | 80/06/15 | 2028:00 | 2028:41 | 110 | 100 | 828 | | 2 | 28, 15 | |
| 731 | 168 | 80/06/16 | 2144:16 | 2145:56 | 360 | 103 | 8729 | 2417 | 10 | 29, 1 | M |
| 732 | 168 | 80/06/16 | 2327:47 | 2331:16 | 440 | 100 | 55719 | 2417 | 2 | 29, 2 | |
| 733 | 169 | 80/06/17 | 0003:40 | 0016:03 | 1020 | 105 | 11561 | 2417 | 2 | 29, 3 | |
| 734 | 169 | 80/06/17 | 2143:20 | 2144:50 | 1170 | 70 | 13300 | | 5 | 29, 5 | |
| 735 | 170 | 80/06/18 | 1852:10 | 1853:40 | 150 | 83 | | | 2 | | |
| 4265 | 170 | 80/06/18 | 2139:40 | 2141:51 | 496 | 100 | | | 3 | 143, 10 | I |
| 736 | 170 | 80/06/18 | 2229:21 | 2229:57 | 60 | 82 | | | 5 | | |
| 737 | 170 | 80/06/18 | 2317:00 | 2317:17 | 29 | 74 | | | 2 | | |
| 738 | 170 | 80/06/18 | 2322:18 | 2322:34 | 55 | 85 | | | 2 | | |
| 739 | 170 | 80/06/18 | 2336:59 | 2337:16 | 99 | 343 | 6315 | | 10 | 29, 6 | |
| 740 | 171 | 80/06/19 | 0002:38 | 0004:18 | 200 | 87 | 2266 | | 5 | 29, 7 | |
| 741 | 171 | 80/06/19 | 0007:35 | 0008:04 | 57 | 129 | 1115 | | 5 | 29, 7 | |
| 742 | 171 | 80/06/19 | 0134:05 | 0134:15 | 22 | 86 | | | 2 | | |
| 743 | 171 | 80/06/19 | 0223:47 | 0224:05 | 160 | 71 | | | | | SN |
| 744 | 171 | 80/06/19 | 0427:08 | 0429:07 | 161 | 64 | | | 5 | | |
| 745 | 171 | 80/06/19 | 0500:18 | 0500:19 | 46 | 136 | 1089 | | 5 | 29, 8 | |
| 746 | 171 | 80/06/19 | 1555:06 | 1556:38 | 205 | 103 | 2665 | | 2 | 29, 9 | |
| 747 | 171 | 80/06/19 | 1831:49 | 1839:01 | 520 | 1317 | 63347 | | 10 | 29, 10 | |
| 748 | 171 | 80/06/19 | 1854:16 | 1857:41 | 380 | 1265 | 73333 | | 5 | 29, 10 | M |
| 749 | 171 | 80/06/19 | 2020:51 | 2023:07 | 200 | 192 | 6723 | | 5 | 29, 11 | |
| 750 | 171 | 80/06/19 | 2135:00 | 2136:35 | 160 | 98 | 2449 | | 5 | 29, 12 | |
| 751 | 171 | 80/06/19 | 2344:21 | 2348:44 | 240 | 76 | 1475 | | 2 | 29, 13 | |
| 752 | 172 | 80/06/20 | 0320:33 | 0321:49 | 150 | 113 | 2599 | | 2 | 29, 14 | EN |
| 753 | 172 | 80/06/20 | 0444:57 | 0445:09 | 60 | 109 | 623 | | 2 | 29, 15 | |
| 754 | 172 | 80/06/20 | 0446:54 | 0447:32 | 100 | 143 | 929 | | 2 | 29, 15 | |
| 755 | 172 | 80/06/20 | 0450:06 | 0451:17 | 140 | 165 | 4689 | | 2 | 29, 15 | |
| 756 | 172 | 80/06/20 | 1254:18 | 1255:26 | 100 | 92 | | | 2 | | |
| 757 | 172 | 80/06/20 | 1832:00 | 1832:17 | 52 | 92 | | | 2 | | |
| 758 | 172 | 80/06/20 | 2009:45 | 2010:13 | 108 | 215 | 2300 | | 5 | 30, 1 | |
| 759 | 172 | 80/06/20 | 2021:04 | 2022:21 | 148 | 168 | 1595 | | 5 | 30, 2 | |
| 760 | 172 | 80/06/20 | 2133:12 | 2135:08 | 562 | 117 | 16801 | | 5 | | |
| 761 | 173 | 80/06/21 | 0045:18 | 0058:22 | 1523 | 435 | 1.99E+05 | | 10 | 30, 3 | SN |
| 762 | 173 | 80/06/21 | 0112:40 | 0118:40 | 1352 | 141391 | 4.14E+06 | | 15 | 30, 3 | |
| 763 | 173 | 80/06/21 | 0139:02 | 0140:12 | 386 | 103 | 80402 | | 5 | 30, 3 | EN,ND |
| 764 | 173 | 80/06/21 | 0248:29 | 0252:27 | 392 | 309 | 15655 | | 5 | 30, 4 | |
| 765 | 173 | 80/06/21 | 0447:24 | 0448:34 | 228 | 269 | 11619 | | 5 | 30, 5 | |
| 766 | 173 | 80/06/21 | 0553:28 | 0554:12 | 235 | 735 | 12716 | | 10 | 30, 6 | M |
| 767 | 173 | 80/06/21 | 0625:54 | 0626:23 | 72 | 83 | | | 2 | 30, 8 | |
| 768 | 173 | 80/06/21 | 0628:03 | 0629:26 | 181 | 125 | 1775 | | 5 | 30, 8 | |
| 769 | 173 | 80/06/21 | 1044:17 | 1044:30 | 170 | 193 | 6549 | | 2 | | SA |
| 4263 | 173 | 80/06/21 | 1726:10 | 1727:03 | 137 | 161 | 5014 | | 2 | 143, 9 | I |
| 4264 | 173 | 80/06/21 | 1733:05 | 1738:32 | 327 | 76 | | | 2 | 143, 9 | I |
| 770 | 173 | 80/06/21 | 2030:03 | 2030:30 | 175 | 162 | 3311 | | 5 | 30, 9 | |
| 771 | 173 | 80/06/21 | 2215:05 | 2216:45 | 275 | 78 | 1933 | | 2 | 30, 10 | |
| 772 | 173 | 80/06/21 | 2354:00 | 2357:10 | 365 | 76 | 2613 | | 5 | 30, 11 | |
| 773 | 174 | 80/06/22 | 0432:25 | 0432:55 | 45 | 88 | | | 2 | | |
| 774 | 174 | 80/06/22 | 1705:05 | 1705:15 | 40 | 81 | | | 2 | | |
| 775 | 174 | 80/06/22 | 1857:30 | 1904:20 | 900 | 150 | 13541 | | 5 | 30, 12 | |
| 776 | 174 | 80/06/22 | 2013:40 | 2014:15 | 40 | 72 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

30

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 777 | 174 | 80/06/22 | 2129:35 | 2133:10 | 540 | 98 | 16000 | | 5 | 30, 13 | |
| 778 | 174 | 80/06/22 | 2155:20 | 2155:40 | 30 | 84 | | | 2 | | |
| 779 | 174 | 80/06/22 | 2157:05 | 2157:20 | 40 | 88 | | | 2 | | |
| 780 | 174 | 80/06/22 | 2212:20 | 2214:05 | 185 | 90 | 600 | | 5 | 31, 1 | |
| 781 | 175 | 80/06/23 | 0221:05 | 0221:15 | 80 | 153 | 1970 | | 2 | 31, 2 | |
| 782 | 175 | 80/06/23 | 0614:00 | 0615:25 | 100 | 110 | 894 | | 5 | 31, 3 | |
| 783 | 175 | 80/06/23 | 0622:05 | 0624:35 | 340 | 490 | 28364 | | 5 | 31, 3 | |
| 784 | 175 | 80/06/23 | 0731:40 | 0731:50 | 20 | 99 | | | 2 | | |
| 785 | 175 | 80/06/23 | 0916:20 | 0917:20 | 410 | 81 | 1229 | | 2 | 31, 4 | |
| 786 | 175 | 80/06/23 | 1054:00 | 1055:40 | 260 | 94 | 2621 | | 2 | 31, 5 | |
| 787 | 175 | 80/06/23 | 1228:30 | 1229:10 | 140 | 76 | 522 | | 2 | 31, 6 | |
| 788 | 175 | 80/06/23 | 1235:30 | 1238:25 | 870 | 136 | 13546 | | 2 | 31, 6 | |
| 789 | 175 | 80/06/23 | 1516:35 | 1517:50 | 155 | 116 | 2132 | | 2 | 31, 7 | |
| 790 | 175 | 80/06/23 | 1827:39 | 1828:16 | 80 | 74 | | | 2 | | |
| 791 | 175 | 80/06/23 | 2127:14 | 2128:34 | 480 | 151 | 15984 | | 5 | 31, 8 | |
| 792 | 175 | 80/06/23 | 2208:48 | 2211:06 | 260 | 78 | 1587 | | 2 | 31, 9 | |
| 793 | 175 | 80/06/23 | 2309:50 | 2312:06 | 340 | 519 | 38057 | | 2 | 31, 10 | |
| 794 | 175 | 80/06/23 | 2333:59 | 2335:47 | 760 | 647 | 1.32E+05 | | 5 | 31, 10 | |
| 795 | 175 | 80/06/23 | 2359:30 | 2359:54 | 60 | 104 | 1996 | | 2 | 31, 10 | |
| 796 | 176 | 80/06/24 | 0002:39 | 0003:04 | 90 | 79 | 642 | | 2 | | |
| 797 | 176 | 80/06/24 | 0255:08 | 0255:41 | 80 | 96 | | | 2 | | |
| 798 | 176 | 80/06/24 | 0600:58 | 0601:27 | 50 | 87 | | | 5 | | |
| 799 | 176 | 80/06/24 | 1042:57 | 1043:43 | 132 | 91 | | | 2 | | |
| 800 | 176 | 80/06/24 | 1521:48 | 1522:51 | 280 | 517 | 30789 | | 5 | 31, 11 | |
| 801 | 176 | 80/06/24 | 1649:48 | 1650:13 | 40 | 87 | | | 2 | | |
| 802 | 176 | 80/06/24 | 1702:36 | 1702:56 | 30 | 76 | | | 2 | | |
| 803 | 176 | 80/06/24 | 1943:23 | 1958:20 | 1621 | 1302 | 59079 | | 10 | 31, 12 | M |
| 804 | 176 | 80/06/24 | 2124:52 | 2126:51 | 180 | 134 | 7146 | | 5 | 31, 13 | |
| 805 | 176 | 80/06/24 | 2145:56 | 2147:46 | 150 | 72 | | | 2 | | |
| 806 | 176 | 80/06/24 | 2303:24 | 2305:54 | 240 | 70 | 14680 | | 2 | 32, 1 | |
| 807 | 177 | 80/06/25 | 0047:22 | 0048:06 | 220 | 136 | 2053 | | 2 | 32, 2 | |
| 808 | 177 | 80/06/25 | 0355:04 | 0356:32 | 240 | 89 | 2176 | | 2 | 32, 3 | SA |
| 809 | 177 | 80/06/25 | 1236:04 | 1238:11 | 448 | 275 | 22579 | | 5 | 32, 4 | |
| 810 | 177 | 80/06/25 | 1548:27 | 1551:59 | 665 | 2880 | 3.97E+05 | | 10 | 32, 5 | |
| 811 | 177 | 80/06/25 | 1710:20 | 1710:30 | 30 | 78 | | | 2 | | |
| 812 | 177 | 80/06/25 | 1723:38 | 1724:32 | 121 | 116 | 43766 | | 2 | 32, 6 | |
| 813 | 177 | 80/06/25 | 1939:50 | 1944:40 | 520 | 105 | | | 5 | 32, 7 | SN, ND |
| 814 | 177 | 80/06/25 | 1952:50 | 1953:05 | 25 | 94 | | | 2 | | |
| 815 | 177 | 80/06/25 | 2121:50 | 2123:00 | 400 | 139 | 15131 | | 10 | 32, 8 | SN |
| 816 | 177 | 80/06/25 | 2202:40 | 2204:40 | 340 | 66 | | | 2 | 32, 9 | ND |
| 817 | 177 | 80/06/25 | 2219:00 | 2219:10 | 20 | 67 | | | 5 | | |
| 818 | 177 | 80/06/25 | 2345:30 | 2347:40 | 370 | 86 | 3170 | | 5 | 32, 10 | |
| 819 | 178 | 80/06/26 | 0119:10 | 0119:20 | 60 | 97 | | | 5 | | |
| 820 | 178 | 80/06/26 | 0354:50 | 0355:10 | 40 | 73 | | | 2 | | |
| 821 | 178 | 80/06/26 | 0418:40 | 0419:30 | 60 | 118 | | | 2 | | |
| 822 | 178 | 80/06/26 | 0742:30 | 0742:50 | 30 | 86 | | | 2 | | |
| 823 | 178 | 80/06/26 | 0752:20 | 0752:50 | 55 | 75 | | | 2 | | |
| 824 | 178 | 80/06/26 | 1822:10 | 1822:35 | 60 | 142 | 2176 | | 5 | 32, 11 | |
| 825 | 178 | 80/06/26 | 1945:20 | 1945:40 | 145 | 153 | 2898 | | 2 | 32, 12 | SN |
| 826 | 178 | 80/06/26 | 2159:50 | 2201:25 | 525 | 91 | 4535 | | 5 | 32, 13 | |
| 827 | 178 | 80/06/26 | 2339:35 | 2340:25 | 470 | 95 | 6400 | | 5 | 32, 14 | |
| 828 | 179 | 80/06/27 | 0036:15 | 0037:00 | 150 | 148 | 4805 | | 5 | 33, 1 | |
| 829 | 179 | 80/06/27 | 0111:55 | 0113:00 | 525 | 135 | 6500 | | 2 | 33, 2 | |

ORIGINAL RECORD
OF POOR QUALITY

31

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 830 | 179 | 80/06/27 | 0422:05 | 0422:30 | 50 | 86 | | | 2 | 33, 3 | |
| 831 | 179 | 80/06/27 | 0429:20 | 0430:10 | 125 | 65 | 1200 | | 5 | 33, 3 | |
| 832 | 179 | 80/06/27 | 0433:20 | 0434:10 | 230 | 86 | 4715 | | 5 | 33, 3 | |
| 833 | 179 | 80/06/27 | 0438:50 | 0439:50 | 210 | 84 | 4095 | | 5 | 33, 3 | EN |
| 834 | 179 | 80/06/27 | 0606:05 | 0607:15 | 225 | 153 | 4368 | | 5 | 33, 4 | |
| 835 | 179 | 80/06/27 | 1221:00 | 1221:15 | 45 | 69 | | | 2 | | |
| 4276 | 179 | 80/06/27 | 1346:23 | 1348:17 | 190 | 125 | 4052 | | 5 | | I |
| 836 | 179 | 80/06/27 | 1704:40 | 1705:20 | 70 | 118 | 1828 | | 5 | 33, 5 | |
| 837 | 179 | 80/06/27 | 1710:45 | 1710:50 | 30 | 95 | | | 5 | | |
| 838 | 179 | 80/06/27 | 2032:00 | 2032:15 | 40 | 66 | | | 2 | | |
| 839 | 179 | 80/06/27 | 2032:55 | 2033:00 | 20 | 60 | | | 2 | | |
| 840 | 179 | 80/06/27 | 2331:10 | 2332:10 | 110 | 68 | | | 2 | | |
| 841 | 180 | 80/06/28 | 0244:50 | 0246:00 | 1020 | 1283 | 1.16E+05 | | 10 | 33, 6 | |
| 842 | 180 | 80/06/28 | 0745:30 | 0749:45 | 460 | 785 | 48900 | | 10 | 33, 7 | EN |
| 843 | 180 | 80/06/28 | 1327:15 | 1328:45 | 415 | 247 | 13800 | | 5 | 33, 8 | |
| 844 | 180 | 80/06/28 | 1513:50 | 1515:20 | 160 | 90 | | | 2 | | |
| 845 | 180 | 80/06/28 | 1654:05 | 1655:00 | 140 | 67 | 530 | | 5 | 33, 9 | |
| 846 | 180 | 80/06/28 | 1708:20 | 1708:50 | 55 | 83 | | | 2 | | |
| 847 | 180 | 80/06/28 | 1845:20 | 1845:30 | 50 | 83 | | | 2 | | |
| 848 | 180 | 80/06/28 | 1856:55 | 1857:30 | 160 | 107 | 1606 | | 5 | 33, 10 | |
| 849 | 180 | 80/06/28 | 2259:20 | 2259:50 | 60 | 159 | 3809 | | 5 | 33, 11 | |
| 850 | 180 | 80/06/28 | 2302:35 | 2302:40 | 20 | 65 | 213 | | 2 | 33, 11 | |
| 851 | 181 | 80/06/29 | 0233:00 | 0234:50 | 1440 | 5556 | 6.30E+05 | | 10 | 33, 12 | |
| 852 | 181 | 80/06/29 | 0413:30 | 0414:30 | 105 | 101 | 958 | | 5 | 33, 13 | |
| 853 | 181 | 80/06/29 | 1040:10 | 1041:50 | 1110 | 9348 | 5.44E+05 | | 15 | 33, 14 | M |
| 854 | 181 | 80/06/29 | 1702:00 | 1703:10 | 110 | 98 | | | | | |
| 855 | 181 | 80/06/29 | 1802:40 | 1803:10 | 370 | 441 | 25625 | | 5 | 34, 1 | SN |
| 856 | 181 | 80/06/29 | 1822:00 | 1823:10 | 825 | 3177 | 3.88E+05 | | 10 | 34, 2 | |
| 857 | 181 | 80/06/29 | 2021:30 | 2021:50 | 60 | 71 | | | 2 | | |
| 858 | 181 | 80/06/29 | 2026:45 | 2027:05 | 20 | 66 | | | 2 | | |
| 859 | 181 | 80/06/29 | 2130:30 | 2130:40 | 45 | 81 | | | 2 | | |
| 860 | 181 | 80/06/29 | 2143:20 | 2146:10 | 300 | 97 | 1525 | | 5 | 34, 3 | |
| 861 | 181 | 80/06/29 | 2158:50 | 2159:20 | 70 | 83 | | | 2 | | |
| 862 | 181 | 80/06/29 | 2211:10 | 2211:50 | 80 | 189 | 4974 | | 5 | 34, 4 | ES |
| 863 | 181 | 80/06/29 | 2322:10 | 2322:50 | 140 | 64 | | | 2 | | |
| 864 | 181 | 80/06/29 | 2334:10 | 2335:40 | 180 | 73 | | | 2 | | |
| 865 | 182 | 80/06/30 | 0108:20 | 0108:40 | 45 | 70 | | | 2 | | |
| 866 | 182 | 80/06/30 | 0419:50 | 0420:25 | 270 | 114 | 3342 | | 5 | 34, 5 | |
| 867 | 182 | 80/06/30 | 0721:40 | 0722:00 | 105 | 211 | 3235 | | 5 | 34, 6 | |
| 868 | 182 | 80/06/30 | 0740:50 | 0741:50 | 250 | 98 | 5136 | | 2 | 34, 7 | EN |
| 869 | 182 | 80/06/30 | 1045:20 | 1046:00 | 130 | 75 | | | 2 | | |
| 870 | 182 | 80/06/30 | 1335:00 | 1338:50 | 285 | 180 | 12896 | | 5 | 34, 8 | |
| 871 | 182 | 80/06/30 | 1521:10 | 1528:00 | 1020 | 207 | 13443 | | 5 | 34, 9 | |
| 872 | 182 | 80/06/30 | 1818:20 | 1825:00 | 850 | 157 | 25845 | | 5 | 34, 10 | |
| 873 | 182 | 80/06/30 | 1946:10 | 1947:45 | 260 | 181 | 1253 | | 2 | 34, 11 | |
| 874 | 182 | 80/06/30 | 2132:10 | 2134:20 | 230 | 90 | 3542 | | 2 | 34, 12 | |
| 875 | 183 | 80/07/01 | 0117:44 | 0118:05 | 130 | 121 | 1463 | | 2 | 34, 13 | |
| 876 | 183 | 80/07/01 | 1350:52 | 1351:30 | 160 | 278 | 4571 | | 5 | 34, 14 | |
| 877 | 183 | 80/07/01 | 1624:59 | 1627:29 | 831 | 27235 | 2.60E+06 | | 15 | 35, 1 | M |
| 878 | 183 | 80/07/01 | 2253:31 | 2253:40 | 22 | 85 | 285 | | 15 | 35, 2 | |
| 879 | 185 | 80/07/03 | 0022:22 | 0023:02 | 80 | 2344 | 25576 | | 10 | 35, 3 | |
| 4284 | 185 | 80/07/03 | 0253:35 | 0254:05 | 60 | 69 | | | 2 | | I |
| 4285 | 186 | 80/07/04 | 0659:15 | 0659:45 | 65 | 81 | | | 2 | | I |

ORIGINAL PAGE IS
OF POOR QUALITY

32

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 881 | 187 | 80/07/05 | 0015:12 | 0019:17 | 460 | 94 | 8058 | | 5 | 35, 4 | SN |
| 882 | 187 | 80/07/05 | 0042:34 | 0042:42 | 16 | 192 | 811 | | 5 | 35, 5 | |
| 883 | 187 | 80/07/05 | 0153:14 | 0153:38 | 53 | 200 | 1245 | | 5 | 35, 6 | |
| 884 | 187 | 80/07/05 | 0156:35 | 0158:05 | 750 | 87 | 7200 | | 3 | 35, 6 | |
| 885 | 187 | 80/07/05 | 0735:29 | 0738:21 | 186 | 382 | 29097 | | 10 | 35, 7 | M, EN |
| 886 | 187 | 80/07/05 | 1009:53 | 1010:03 | 34 | 175 | 786 | | 5 | 35, 8 | |
| 887 | 187 | 80/07/05 | 1025:34 | 1025:43 | 36 | 82 | | | 2 | | |
| 888 | 187 | 80/07/05 | 1455:13 | 1456:26 | 149 | 85 | | | 2 | | |
| 889 | 187 | 80/07/05 | 1615:16 | 1615:49 | 70 | 99 | | | 2 | | |
| 890 | 187 | 80/07/05 | 1634:18 | 1636:22 | 140 | 70 | | | 2 | | |
| 891 | 187 | 80/07/05 | 2237:24 | 2241:35 | 3195 | 6303 | 2.64E+06 | | 10 | 35, 9 | SN, ES |
| 892 | 188 | 80/07/06 | 0418:04 | 0419:54 | 420 | 327 | 16610 | | 5 | 35, 10 | |
| 893 | 188 | 80/07/06 | 0956:40 | 0958:06 | 80 | 93 | | | 2 | | |
| 894 | 189 | 80/07/07 | 0104:26 | 0104:56 | 35 | 133 | 448 | | 5 | 35, 11 | |
| 895 | 189 | 80/07/07 | 0536:33 | 0536:41 | 13 | 112 | | | 5 | | |
| 896 | 189 | 80/07/07 | 1013:23 | 1014:09 | 120 | 114 | 2463 | | 2 | 35, 12 | |
| 897 | 189 | 80/07/07 | 1017:28 | 1017:43 | 20 | 280 | 1169 | | 5 | 35, 12 | |
| 898 | 189 | 80/07/07 | 1141:24 | 1143:46 | 180 | 237 | 1262 | | 5 | 35, 13 | |
| 899 | 189 | 80/07/07 | 1146:27 | 1151:09 | 580 | 244 | 26159 | | 5 | 35, 13 | |
| 900 | 189 | 80/07/07 | 1213:01 | 1213:18 | 40 | 74 | | | 2 | | |
| 901 | 189 | 80/07/07 | 1355:03 | 1355:31 | 70 | 182 | 2163 | | 5 | 35, 14 | |
| 902 | 189 | 80/07/07 | 1446:07 | 1450:03 | 320 | 89 | 2032 | | 10 | 36, 1 | |
| 903 | 189 | 80/07/07 | 1615:12 | 1616:31 | 160 | 71 | | | 2 | | |
| 904 | 189 | 80/07/07 | 1619:28 | 1620:28 | 120 | 70 | | | 2 | | |
| 905 | 189 | 80/07/07 | 1629:07 | 1631:24 | 240 | 75 | 1550 | | 5 | 36, 2 | |
| 906 | 189 | 80/07/07 | 1751:00 | 1753:10 | 610 | 309 | 18125 | | 10 | 36, 3 | SN |
| 907 | 189 | 80/07/07 | 2113:40 | 2114:20 | 280 | 725 | 13425 | | 5 | 36, 4 | M |
| 908 | 189 | 80/07/07 | 2246:20 | 2227:15 | 125 | 222 | | | | | ND |
| 909 | 190 | 80/07/08 | 0050:10 | 0051:10 | 225 | 193 | 5006 | | 5 | 36, 5 | |
| 910 | 190 | 80/07/08 | 0057:40 | 0057:50 | 45 | 79 | | | 2 | | |
| 911 | 190 | 80/07/08 | 0239:30 | 0239:50 | 45 | 239 | 1377 | | 5 | 36, 6 | |
| 912 | 190 | 80/07/08 | 1447:30 | 1450:40 | 450 | 74 | | | 2 | | |
| 913 | 190 | 80/07/08 | 1919:41 | 1920:08 | 40 | 65 | | | 2 | | |
| 914 | 190 | 80/07/08 | 1933:22 | 1933:45 | 45 | 70 | | | 2 | | |
| 915 | 190 | 80/07/08 | 1951:21 | 1952:37 | 101 | 84 | | | 2 | | |
| 916 | 190 | 80/07/08 | 2058:52 | 2059:04 | 25 | 113 | 573 | | 5 | 36, 7 | |
| 917 | 190 | 80/07/08 | 2102:50 | 2103:20 | 96 | 90 | | | 5 | 36, 7 | |
| 918 | 190 | 80/07/08 | 2106:05 | 2106:17 | 29 | 87 | | | 5 | 36, 7 | |
| 919 | 190 | 80/07/08 | 2112:17 | 2112:43 | 63 | 69 | | | 5 | | |
| 920 | 190 | 80/07/08 | 2314:02 | 2314:25 | 76 | 94 | | | 2 | | ND |
| 921 | 191 | 80/07/09 | 0145:31 | 0145:43 | 64 | 427 | 6046 | | 10 | 36, 8 | |
| 922 | 191 | 80/07/09 | 0214:45 | 0215:12 | 115 | 523 | | | 10 | | |
| 923 | 191 | 80/07/09 | 2112:45 | 2112:55 | 75 | 69 | | | 2 | | |
| 924 | 191 | 80/07/09 | 2257:25 | 2259:50 | 305 | 138 | 2288 | | 5 | 36, 9 | |
| 925 | 192 | 80/07/10 | 0150:15 | 0150:20 | 15 | 139 | 429 | | 5 | 36, 10 | |
| 926 | 192 | 80/07/10 | 0227:40 | 0228:20 | 170 | 209 | 1500 | | 5 | 36, 11 | |
| 927 | 192 | 80/07/10 | 0355:50 | 0356:55 | 180 | 535 | 7593 | | 5 | 36, 12 | |
| 928 | 192 | 80/07/10 | 0501:35 | 0501:45 | 45 | 120 | 791 | | 2 | 36, 13 | |
| 929 | 192 | 80/07/10 | 0943:20 | 0943:25 | 90 | 95 | | | 2 | | |
| 930 | 192 | 80/07/10 | 1017:50 | 1018:15 | 155 | 79 | | | 2 | | |
| 931 | 192 | 80/07/10 | 1259:40 | 1300:50 | 170 | 68 | | | 5 | | |
| 932 | 192 | 80/07/10 | 1439:00 | 1441:45 | 275 | 67 | 1081 | | 2 | 37, 1 | |
| 933 | 192 | 80/07/10 | 1558:05 | 1558:15 | 40 | 68 | | | 15 | | |

LISTING OF OF POOR QUALITY

33

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 934 | 192 | 80/07/10 | 1738:55 | 1739:20 | 35 | 114 | 260 | | 5 | 37, 2 | |
| 935 | 192 | 80/07/10 | 2122:05 | 2122:20 | 55 | 42 | | | 2 | | |
| 936 | 192 | 80/07/10 | 2125:00 | 2126:05 | 120 | 53 | | | 5 | | |
| 937 | 193 | 80/07/11 | 0153:25 | 0154:25 | 150 | 76 | | | 2 | | |
| 938 | 193 | 80/07/11 | 0531:15 | 0531:35 | 40 | 103 | 501 | | 5 | 37, 3 | |
| 939 | 193 | 80/07/11 | 0626:40 | 0629:15 | 200 | 70 | 747 | | 2 | 37, 4 | SN |
| 940 | 193 | 80/07/11 | 0815:05 | 0817:50 | 315 | 68 | 3622 | | 2 | 37, 5 | |
| 941 | 193 | 80/07/11 | 0823:40 | 0824:00 | 100 | 63 | 900 | | 2 | 37, 5 | |
| 4286 | 193 | 80/07/11 | 1200:00 | 1201:00 | 163 | 185 | 4382 | | 3 | 144, 2 | I |
| 942 | 193 | 80/07/11 | 1250:25 | 1250:50 | 50 | 197 | | | 5 | 143, 17 | |
| 943 | 193 | 80/07/11 | 1251:25 | 1253:00 | 145 | | | | 5 | 37, 6 | ND |
| 944 | 193 | 80/07/11 | 1255:25 | 1255:45 | 475 | 408 | | | 5 | 37, 6 | ND |
| 4278 | 193 | 80/07/11 | 1511:58 | 1513:41 | 640 | 319 | 15189 | | 10 | 143, 18 | I |
| 945 | 193 | 80/07/11 | 1912:12 | 1913:27 | 140 | 87 | | | 5 | | |
| 946 | 193 | 80/07/11 | 1943:56 | 1944:41 | 130 | 224 | 8592 | | 5 | 37, 7 | |
| 947 | 193 | 80/07/11 | 2223:44 | 2226:55 | 360 | 105 | 6636 | | 2 | 37, 8 | |
| 948 | 194 | 80/07/12 | 0215:39 | 0216:55 | 760 | 90 | 19151 | | 2 | 37, 9 | |
| 949 | 194 | 80/07/12 | 0528:44 | 0529:49 | 120 | 80 | | | 2 | | |
| 950 | 194 | 80/07/12 | 0704:27 | 0706:03 | 140 | 81 | | | 2 | | |
| 951 | 194 | 80/07/12 | 0805:40 | 0806:07 | 80 | 155 | 650 | | 2 | 37, 10 | |
| 4280 | 194 | 80/07/12 | 0942:52 | 0943:06 | 80 | 228 | 940 | | 5 | 143, 20 | I |
| 952 | 194 | 80/07/12 | 1110:40 | 1117:15 | 983 | 1406 | 2.62E+05 | | 5 | 37, 11 | M |
| 953 | 194 | 80/07/12 | 1254:09 | 1255:00 | 140 | 100 | | | 5 | | ND |
| 4279 | 194 | 80/07/12 | 1341:36 | 1343:10 | 200 | 1621 | 42967 | | 5 | 143, 19 | I |
| 954 | 194 | 80/07/12 | 1433:07 | 1436:01 | 300 | 93 | 5952 | | 5 | 37, 12 | |
| 955 | 194 | 80/07/12 | 1444:10 | 1444:56 | 130 | 66 | | | 2 | | |
| 956 | 194 | 80/07/12 | 1735:25 | 1736:15 | 265 | 2799 | 63124 | | 10 | 37, 13 | M |
| 957 | 194 | 80/07/12 | 1921:05 | 1921:10 | 25 | 67 | | | 2 | 37, 14 | |
| 958 | 194 | 80/07/12 | 1922:45 | 1923:30 | 140 | 115 | 2604 | | 5 | 37, 14 | |
| 959 | 194 | 80/07/12 | 2225:50 | 2226:05 | 35 | 84 | | | 2 | | |
| 960 | 194 | 80/07/12 | 2230:15 | 2230:35 | 110 | 78 | | | 2 | | |
| 961 | 194 | 80/07/12 | 2237:10 | 2240:20 | 215 | 84 | 1043 | | 2 | 38, 1 | |
| 962 | 194 | 80/07/12 | 2257:50 | 2258:15 | 85 | 74 | | | 2 | | |
| 963 | 194 | 80/07/12 | 2300:40 | 2301:30 | 60 | 71 | | | 2 | | |
| 964 | 195 | 80/07/13 | 0027:30 | 0027:40 | 35 | 40 | | | 2 | | ND |
| 965 | 195 | 80/07/13 | 0028:50 | 0029:05 | 40 | 90 | | | 2 | | |
| 966 | 195 | 80/07/13 | 0351:20 | 0352:15 | 160 | 72 | | | 2 | | |
| 967 | 195 | 80/07/13 | 0356:05 | 0356:10 | 45 | 61 | | | 2 | | |
| 968 | 195 | 80/07/13 | 0626:05 | 0629:25 | 200 | 71 | 924 | | 5 | 38, 2 | |
| 969 | 195 | 80/07/13 | 1116:10 | 1117:00 | 95 | 64 | | | 10 | | |
| 970 | 195 | 80/07/13 | 1430:25 | 1433:15 | 555 | 140 | 15180 | | 5 | 38, 3 | |
| 971 | 195 | 80/07/13 | 1604:00 | 1604:55 | 155 | 91 | | | 2 | | |
| 972 | 195 | 80/07/13 | 1759:50 | 1801:00 | 295 | 278 | 12666 | | 2 | 38, 4 | |
| 973 | 195 | 80/07/13 | 1915:50 | 1918:10 | 625 | 841 | 42024 | | 5 | 38, 5 | M |
| 974 | 195 | 80/07/13 | 1929:55 | 1930:35 | 155 | 137 | 1689 | | 2 | 38, 5 | |
| 975 | 196 | 80/07/14 | 0038:35 | 0039:00 | 35 | 73 | | | 2 | | |
| 976 | 196 | 80/07/14 | 0042:20 | 0042:35 | 85 | 93 | | | 5 | | |
| 977 | 196 | 80/07/14 | 0134:45 | 0134:55 | 15 | 99 | | | 2 | | |
| 978 | 196 | 80/07/14 | 0149:15 | 0149:35 | 205 | 197 | 2460 | | 5 | 38, 6 | |
| 979 | 196 | 80/07/14 | 0317:33 | 0317:39 | 20 | 86 | | | 2 | | |
| 980 | 196 | 80/07/14 | 0355:44 | 0357:06 | 150 | 172 | 3657 | | 5 | 38, 7 | |
| 981 | 196 | 80/07/14 | 0503:36 | 0503:46 | 20 | 71 | | | 2 | | |
| 982 | 196 | 80/07/14 | 0646:24 | 0647:14 | 110 | 106 | 999 | | 5 | 38, 8 | |

ORIGINAL PAGE IS
OF POOR QUALITY

34

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 983 | 196 | 80/07/14 | 0822:04 | 0825:55 | 440 | 5332 | 4.15E+05 | | 15 | 38, 9 | M |
| 984 | 196 | 80/07/14 | 1015:08 | 1016:46 | 220 | 186 | 692 | | 5 | 38, 10 | |
| 985 | 196 | 80/07/14 | 1246:04 | 1248:03 | 220 | 79 | 2687 | | 5 | 38, 11 | |
| 986 | 196 | 80/07/14 | 1326:35 | 1330:42 | 440 | 78 | 3804 | | 2 | 38, 12 | |
| 987 | 196 | 80/07/14 | 1424:53 | 1430:15 | 840 | 110 | 21781 | | 5 | 38, 13 | |
| 988 | 197 | 80/07/15 | 0129:30 | 0130:15 | 105 | 292 | 4157 | | 5 | 38, 14 | |
| 989 | 197 | 80/07/15 | 0845:00 | 0845:25 | 115 | 307 | 4441 | | 5 | 39, 1 | |
| 990 | 197 | 80/07/15 | 0937:30 | 0937:40 | 100 | 66 | | | 2 | | |
| 991 | 197 | 80/07/15 | 0953:00 | 0953:30 | 140 | 320 | 5062 | | 5 | 39, 2 | |
| 992 | 197 | 80/07/15 | 1423:02 | 1426:57 | 440 | 85 | 4255 | | 5 | 39, 3 | |
| 993 | 197 | 80/07/15 | 2247:05 | 2247:50 | 190 | 166 | 5711 | | 5 | 39, 4 | |
| 994 | 198 | 80/07/16 | 0633:50 | 0634:25 | 115 | 57 | | | 2 | | |
| 995 | 198 | 80/07/16 | 0636:30 | 0637:35 | 170 | 106 | 3545 | | 2 | 39, 5 | |
| 996 | 198 | 80/07/16 | 1422:32 | 1423:25 | 80 | 103 | 1060 | | 2 | 39, 6 | |
| 997 | 198 | 80/07/16 | 1511:00 | 1511:17 | 140 | 454 | 12452 | | 5 | 39, 7 | SA |
| 998 | 198 | 80/07/16 | 1733:06 | 1733:17 | 50 | 117 | 1389 | | 2 | 39, 8 | |
| 999 | 198 | 80/07/16 | 1750:46 | 1751:04 | 99 | 71 | | | 2 | | |
| 1000 | 198 | 80/07/16 | 1923:46 | 1924:10 | 35 | 83 | | | 2 | | |
| 1001 | 199 | 80/07/17 | 0141:36 | 0142:28 | 100 | 70 | | | 2 | | |
| 1002 | 199 | 80/07/17 | 0610:51 | 0615:09 | 380 | 110 | 8493 | | 5 | 39, 9 | |
| 1003 | 199 | 80/07/17 | 0659:32 | 0700:16 | 102 | 141 | 2408 | | 2 | 39, 10 | |
| 1004 | 199 | 80/07/17 | 0923:25 | 0924:56 | 182 | 85 | | | 5 | | AX |
| 1005 | 199 | 80/07/17 | 1104:33 | 1105:52 | 150 | 86 | | | 5 | | AX |
| 1006 | 199 | 80/07/17 | 1330:55 | 1333:26 | 267 | 74 | 2394 | | 2 | 39, 11 | |
| 4287 | 200 | 80/07/18 | 0020:25 | 0021:40 | 75 | 76 | | | 2 | | I |
| 4288 | 200 | 80/07/18 | 0203:30 | 0204:15 | 70 | 76 | | | 2 | | I |
| 1007 | 200 | 80/07/18 | 0454:38 | 0455:20 | 110 | 87 | | | 5 | | |
| 1008 | 200 | 80/07/18 | 0612:49 | 0613:05 | 40 | 67 | | | 2 | | |
| 1009 | 200 | 80/07/18 | 0655:08 | 0655:30 | 60 | 211 | 2443 | | 5 | 39, 12 | |
| 1010 | 200 | 80/07/18 | 0919:52 | 0922:49 | 250 | 94 | 3328 | | 10 | 39, 13 | |
| 1011 | 201 | 80/07/19 | 0007:20 | 0007:40 | 120 | 239 | 3120 | | 5 | 39, 14 | |
| 1012 | 201 | 80/07/19 | 0027:15 | 0035:55 | 775 | 101 | 19000 | | 5 | 39, 14 | ES |
| 1013 | 201 | 80/07/19 | 0655:10 | 0657:10 | 255 | 75 | 390 | | 2 | 40, 1 | |
| 1014 | 201 | 80/07/19 | 0754:20 | 0755:20 | 125 | 70 | | | 2 | | |
| 4289 | 202 | 80/07/20 | 0029:45 | 0031:00 | 139 | 119 | 1995 | | 2 | 144, 3 | I |
| 1015 | 202 | 80/07/20 | 0817:00 | 0818:20 | 130 | 356 | 11694 | | 5 | 40, 2 | |
| 1016 | 202 | 80/07/20 | 0914:45 | 0915:58 | 260 | 94 | 4985 | | 5 | 40, 3 | |
| 1017 | 202 | 80/07/20 | 1229:41 | 1233:58 | 500 | 72 | 3797 | | 5 | 40, 4 | |
| 1018 | 202 | 80/07/20 | 1922:43 | 1925:08 | 417 | 2624 | 1.04E+05 | | 10 | 40, 5 | |
| 1019 | 202 | 80/07/20 | 2237:20 | 2237:36 | 29 | 162 | 819 | | 5 | 40, 6 | |
| 1020 | 203 | 80/07/21 | 0032:34 | 0032:47 | 36 | 74 | | | 2 | | |
| 1021 | 203 | 80/07/21 | 0136:10 | 0136:19 | 28 | 75 | | | 2 | | |
| 1022 | 203 | 80/07/21 | 0253:43 | 0256:13 | 612 | 12443 | 7.99E+05 | | 15 | 40, 7 | M |
| 1023 | 203 | 80/07/21 | 0946:13 | 0946:21 | 57 | 62 | | | 2 | | |
| 4290 | 203 | 80/07/21 | 1413:15 | 1414:20 | 135 | 84 | | | 2 | | I |
| 4291 | 203 | 80/07/21 | 1422:50 | 1423:30 | 65 | 67 | | | 2 | | I |
| 1024 | 203 | 80/07/21 | 1919:40 | 1920:36 | 340 | 160 | 10404 | | 5 | 40, 9 | |
| 1025 | 203 | 80/07/21 | 2213:56 | 2214:28 | 90 | 86 | | | 2 | | |
| 1026 | 205 | 80/07/23 | 0008:50 | 0010:50 | 220 | 83 | 1957 | | 2 | 40, 10 | |
| 1027 | 205 | 80/07/23 | 0109:30 | 0112:05 | 2025 | 319 | 7.11E+06 | | 10 | 40, 10 | M, SN |
| 1028 | 205 | 80/07/23 | 0303:20 | 0304:25 | 120 | 200 | 4720 | | 5 | 40, 12 | |
| 1029 | 205 | 80/07/23 | 0620:10 | 0621:50 | 135 | 72 | | | 2 | | |
| 1030 | 205 | 80/07/23 | 0741:45 | 0742:20 | 120 | 71 | | | 5 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

35

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 1031 | 205 | 80/07/23 | 1010:15 | 1010:45 | 55 | 247 | 3558 | | 5 | 40, 13 | |
| 1032 | 205 | 80/07/23 | 1635:40 | 1635:55 | 40 | 76 | | | 2 | | |
| 1033 | 205 | 80/07/23 | 2156:45 | 2157:45 | 105 | 110 | 1907 | | 5 | 40, 14 | |
| 1034 | 205 | 80/07/23 | 2210:35 | 2212:00 | 265 | 74 | 1061 | | 2 | 40, 14 | |
| 1035 | 206 | 80/07/24 | 0001:05 | 0001:20 | 185 | 70 | | | 2 | | |
| 1036 | 206 | 80/07/24 | 0303:10 | 0303:35 | 40 | 84 | | | 2 | | |
| 1037 | 206 | 80/07/24 | 0648:30 | 0648:50 | 35 | 83 | | | 2 | | |
| 1038 | 206 | 80/07/24 | 0908:30 | 0909:05 | 60 | 228 | 2216 | | 5 | 41, 1 | |
| 1039 | 206 | 80/07/24 | 1138:55 | 1139:10 | 235 | 93 | 1840 | | 2 | 41, 2 | |
| 1040 | 207 | 80/07/25 | 1538:25 | 1541:10 | 360 | 90 | 3830 | | 2 | 41, 3 | |
| 1041 | 207 | 80/07/25 | 2057:31 | 2058:10 | 126 | 91 | | | 2 | | ES |
| 1042 | 208 | 80/07/26 | 0116:18 | 0119:42 | 433 | 189 | 57065 | | 5 | 41, 4 | ND |
| 1043 | 208 | 80/07/26 | 0152:29 | 0152:45 | 31 | 123 | 639 | | 2 | 41, 5 | |
| 1044 | 208 | 80/07/26 | 1136:08 | 1136:40 | 95 | 65 | | | 2 | | |
| 1045 | 208 | 80/07/26 | 1306:33 | 1307:25 | 179 | 94 | | | 2 | | |
| 1046 | 208 | 80/07/26 | 1731:17 | 1732:04 | 146 | 88 | | | 2 | | |
| 1047 | 208 | 80/07/26 | 2328:16 | 2328:50 | 43 | 89 | | | 5 | | |
| 1048 | 208 | 80/07/26 | 2351:22 | 2352:19 | 90 | 78 | | | 5 | | |
| 1049 | 209 | 80/07/27 | 0641:07 | 0642:12 | 90 | 75 | | | 2 | | |
| 1050 | 209 | 80/07/27 | 0959:35 | 1000:41 | 130 | 59 | | | 2 | | |
| 1051 | 209 | 80/07/27 | 1045:15 | 1045:52 | 100 | 68 | | | 2 | | ES |
| 1052 | 209 | 80/07/27 | 1222:24 | 1222:54 | 50 | 288 | 3462 | | 10 | 41, 6 | |
| 1053 | 209 | 80/07/27 | 2041:35 | 2042:05 | 115 | 62 | | | 2 | | |
| 1054 | 210 | 80/07/28 | 0437:40 | 0444:40 | 745 | 70 | 2261 | | 2 | 41, 7 | |
| 4332 | 219 | 80/08/06 | 0002:55 | 0003:45 | 145 | 63 | | | 2 | | I |
| 4335 | 219 | 80/08/06 | 0549:30 | 0552:15 | 482 | 89 | | | 2 | 145, 4 | I, ND |
| 1055 | 220 | 80/08/07 | 0743:05 | 0746:00 | 390 | 67 | 1376 | | 2 | 41, 8 | |
| 1056 | 220 | 80/08/07 | 1116:25 | 1118:05 | 120 | 99 | | | 2 | | EN, ND |
| 1057 | 222 | 80/08/09 | 2014:23 | 2014:55 | 340 | 121 | 4719 | | 2 | 41, 9 | |
| 1058 | 222 | 80/08/09 | 2332:25 | 2332:46 | 50 | 66 | | 2605 | 2 | 41, 10 | |
| 1059 | 222 | 80/08/09 | 2338:03 | 2342:22 | 450 | 74 | 2067 | 2605 | 2 | 41, 10 | |
| 1060 | 222 | 80/08/09 | 2348:53 | 2349:10 | 30 | 114 | | 2605 | 2 | 41, 10 | |
| 1061 | 223 | 80/08/10 | 2125:42 | 2126:24 | 239 | 119 | 6348 | | 10 | 41, 11 | |
| 1062 | 223 | 80/08/10 | 2201:54 | 2203:14 | 166 | 72 | | | 2 | | |
| 1063 | 223 | 80/08/10 | 2342:02 | 2346:22 | 345 | 96 | 4325 | | 5 | 41, 12 | |
| 1064 | 224 | 80/08/11 | 0051:20 | 0102:27 | 667 | 772 | 77856 | | 15 | 41, 13 | |
| 1065 | 224 | 80/08/11 | 1034:16 | 1034:55 | 223 | 202 | 3326 | | 5 | 42, 1 | |
| 1066 | 224 | 80/08/11 | 1049:40 | 1052:20 | 749 | 300 | 15999 | | 5 | 42, 1 | |
| 1067 | 224 | 80/08/11 | 2119:00 | 2121:24 | 280 | 155 | 12336 | | 5 | 42, 2 | |
| 1068 | 225 | 80/08/12 | 0604:01 | 0605:17 | 240 | 128 | 3807 | | 5 | 42, 3 | |
| 1069 | 225 | 80/08/12 | 2136:18 | 2137:49 | 150 | 65 | | | 2 | | |
| 1070 | 226 | 80/08/13 | 0112:02 | 0113:14 | 120 | 60 | | | 2 | | |
| 1071 | 226 | 80/08/13 | 1314:52 | 1315:08 | 400 | 96 | 8495 | | 2 | 42, 4 | ES |
| 1072 | 226 | 80/08/13 | 1658:00 | 1659:10 | 140 | 69 | | | 5 | | |
| 1073 | 226 | 80/08/13 | 2121:25 | 2122:55 | 110 | 56 | | | 2 | | |
| 1074 | 227 | 80/08/14 | 1217:00 | 1217:35 | 55 | 68 | | | 2 | | |
| 4364 | 227 | 80/08/14 | 2311:40 | 2312:10 | 67 | 204 | 2154 | | 4 | 145, 16 | I |
| 1075 | 228 | 80/08/15 | 0116:53 | 0118:13 | | 92 | | | 2 | | ND |
| 1076 | 228 | 80/08/15 | 0216:11 | 0218:07 | 150 | 129 | 2737 | | 15 | 42, 5 | |
| 1077 | 228 | 80/08/15 | 1820:09 | 1821:43 | 190 | 81 | | | 5 | | |
| 1078 | 228 | 80/08/15 | 2144:36 | 2145:49 | 130 | 63 | | | 2 | | |
| 1079 | 229 | 80/08/16 | 1229:24 | 1229:35 | 50 | 71 | | | 2 | | |
| 1080 | 229 | 80/08/16 | 1352:01 | 1353:47 | 160 | 58 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

36

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1081 | 229 | 80/08/16 | 1512:40 | 1513:40 | 150 | 57 | | | 2 | | |
| 1082 | 229 | 80/08/16 | 1804:45 | 1806:10 | 110 | 66 | | | 2 | | |
| 1083 | 229 | 80/08/16 | 1932:00 | 1933:45 | 275 | 463 | 29500 | | 5 | 42, 6 | |
| 1084 | 231 | 80/08/18 | 0153:40 | 0154:10 | 60 | 73 | | | 2 | | |
| 1085 | 231 | 80/08/18 | 1044:52 | 1045:37 | 114 | 176 | 3932 | | 2 | 42, 7 | |
| 1086 | 231 | 80/08/18 | 2006:40 | 2007:20 | 85 | 60 | | | 2 | | |
| 1087 | 232 | 80/08/19 | 0220:10 | 0220:20 | 50 | 64 | | | 2 | | |
| 1088 | 232 | 80/08/19 | 1523:05 | 1525:25 | 200 | 71 | 924 | | 2 | 42, 8 | |
| 1089 | 232 | 80/08/19 | 1527:15 | 1528:05 | 180 | 67 | 659 | | 2 | 42, 8 | |
| 1090 | 234 | 80/08/21 | 1312:05 | 1312:30 | 95 | 220 | 2768 | | 5 | 42, 9 | |
| 1091 | 234 | 80/08/21 | 1331:06 | 1331:09 | 10 | 80 | 240 | | 2 | | |
| 1092 | 234 | 80/08/21 | 1342:00 | 1343:40 | 710 | 90 | | 2629 | 2 | 42, 10 | ND |
| 1093 | 234 | 80/08/21 | 1650:05 | 1650:20 | 120 | 75 | 630 | 2635 | 2 | | |
| 1094 | 234 | 80/08/21 | 1743:00 | 1743:25 | 45 | 90 | 225 | 2635 | 2 | | |
| 1095 | 234 | 80/08/21 | 1750:58 | 1751:08 | 30 | 284 | 1282 | 2635 | 5 | 42, 11 | |
| 1096 | 235 | 80/08/22 | 0031:12 | 0031:34 | 230 | 79 | 1033 | 2635 | 5 | 42, 12 | |
| 1097 | 235 | 80/08/22 | 0227:07 | 0227:30 | 110 | 77 | | 2629 | 2 | | |
| 1098 | 235 | 80/08/22 | 0241:09 | 0241:44 | 70 | 74 | | | 2 | | |
| 1099 | 235 | 80/08/22 | 0344:11 | 0345:29 | 80 | 80 | | 2626 | 2 | | |
| 1100 | 235 | 80/08/22 | 0347:02 | 0347:42 | 70 | 72 | | 2626 | 2 | | |
| 1101 | 235 | 80/08/22 | 0514:58 | 0517:03 | 926 | 310 | 39322 | 2675 | 2 | 42, 13 | |
| 1102 | 235 | 80/08/22 | 0828:06 | 0829:12 | 300 | 1367 | 75906 | | 10 | 42, 14 | |
| 1103 | 235 | 80/08/22 | 1126:15 | 1127:58 | 160 | 289 | 8446 | | 5 | 42, 15 | |
| 4377 | 235 | 80/08/22 | 1308:20 | 1309:35 | 109 | 61 | | | 2 | | I |
| 1104 | 235 | 80/08/22 | 1652:47 | 1654:20 | 360 | 53 | 2949 | 2635 | 2 | | |
| 1105 | 235 | 80/08/22 | 1948:40 | 1949:06 | 36 | 66 | | | 2 | | |
| 1106 | 235 | 80/08/22 | 2121:54 | 2125:28 | 834 | 2091 | 76784 | 2635 | 10 | 43, 1 | M |
| 1107 | 236 | 80/08/23 | 0636:47 | 0636:56 | 36 | 95 | | 2629 | 2 | | |
| 1108 | 236 | 80/08/23 | 1156:18 | 1156:53 | 459 | 124 | 7127 | 2629 | 5 | 43, 2 | |
| 1109 | 236 | 80/08/23 | 1204:34 | 1205:10 | 391 | 227 | 5620 | 2629 | 2 | 43, 2 | |
| 1110 | 236 | 80/08/23 | 1449:56 | 1450:49 | 118 | 149 | 2621 | 2629 | 5 | 43, 3 | |
| 1111 | 236 | 80/08/23 | 1804:20 | 1806:09 | 150 | 81 | | | 2 | | |
| 1112 | 236 | 80/08/23 | 1816:31 | 1817:26 | | 84 | | | 2 | | ES |
| 1113 | 236 | 80/08/23 | 2126:39 | 2128:33 | 480 | 903 | 73859 | | 5 | 43, 4 | |
| 1114 | 237 | 80/08/24 | 0022:52 | 0024:41 | 190 | 98 | | | 2 | | |
| 1115 | 237 | 80/08/24 | 0223:53 | 0224:42 | 70 | 72 | | | 2 | | |
| 1116 | 237 | 80/08/24 | 0525:10 | 0529:13 | 660 | 194 | 25392 | | 2 | 43, 5 | |
| 1117 | 237 | 80/08/24 | 0823:56 | 0827:55 | 540 | 104 | 9361 | | 2 | 43, 6 | |
| 1118 | 237 | 80/08/24 | 1323:37 | 1323:59 | 40 | 94 | | | 2 | | |
| 1119 | 237 | 80/08/24 | 1604:29 | 1609:22 | 1065 | 312 | 44451 | | 5 | 43, 7 | |
| 1120 | 237 | 80/08/24 | 1642:23 | 1645:09 | 340 | 74 | 3633 | | 2 | 43, 8 | AX |
| 1121 | 237 | 80/08/24 | 1810:38 | 1811:02 | 40 | 74 | | | 2 | | |
| 1122 | 237 | 80/08/24 | 1944:17 | 1945:39 | 700 | 608 | 74210 | | 5 | 43, 9 | M, ES |
| 1123 | 237 | 80/08/24 | 2238:55 | 2239:11 | 30 | 62 | | | 2 | | |
| 1124 | 238 | 80/08/25 | 0008:40 | 0008:49 | 50 | 79 | | | 2 | | |
| 1125 | 238 | 80/08/25 | 0021:40 | 0022:22 | 130 | 232 | 3524 | | 5 | 43, 10 | |
| 1126 | 238 | 80/08/25 | 0217:11 | 0223:52 | 600 | 100 | 6906 | | 2 | 43, 11 | |
| 1127 | 238 | 80/08/25 | 0339:30 | 0340:05 | 120 | 69 | | | 2 | | |
| 1128 | 238 | 80/08/25 | 0400:18 | 0401:39 | 110 | 342 | 11723 | | 5 | 43, 12 | |
| 1129 | 238 | 80/08/25 | 0632:23 | 0635:46 | 360 | 74 | | | 2 | | |
| 1130 | 238 | 80/08/25 | 1017:30 | 1019:49 | 220 | 301 | | | 5 | 43, 13 | |
| 1131 | 238 | 80/08/25 | 1253:38 | 1254:25 | 78 | 247 | 4320 | | 5 | 43, 14 | |
| 1132 | 238 | 80/08/25 | 1256:17 | 1302:15 | 840 | 161 | 32706 | | 2 | 43, 14 | |

ORIGINAL PAGE IS
OF POOR QUALITY

37

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1133 | 238 | 80/08/25 | 1457:00 | 1457:40 | 220 | 87 | 3902 | | 2 | 43, 15 | |
| 1134 | 238 | 80/08/25 | 1623:20 | 1623:47 | 80 | 77 | | | 2 | | |
| 1135 | 238 | 80/08/25 | 1753:00 | 1753:40 | 360 | 125 | 4105 | | 2 | 43, 16 | |
| 1136 | 238 | 80/08/25 | 1915:35 | 1915:55 | 45 | 61 | | | 2 | | |
| 1137 | 238 | 80/08/25 | 2057:10 | 2057:55 | 55 | 85 | | | 2 | 44, 1 | |
| 1138 | 238 | 80/08/25 | 2059:05 | 2059:55 | 130 | 106 | 1156 | | 2 | 44, 1 | |
| 1979 | 239 | 80/08/26 | 0353:45 | 0354:10 | 166 | 148 | 1884 | | 4 | 146, 15 | I |
| 4418 | 239 | 80/08/26 | 0406:10 | 0407:25 | 103 | 168 | 1764 | | 2 | 146, 15 | I |
| 1139 | 239 | 80/08/26 | 1026:55 | 1028:15 | 135 | 85 | | | 2 | | |
| 1140 | 239 | 80/08/26 | 1029:30 | 1030:10 | 104 | 74 | | | 2 | | |
| 1141 | 239 | 80/08/26 | 1142:31 | 1142:32 | 1 | 1245 | | | 10 | 44, 2 | M, AX |
| 1142 | 240 | 80/08/27 | 0039:00 | 0039:30 | 30 | 78 | | | 2 | | |
| 1143 | 240 | 80/08/27 | 0226:10 | 0226:15 | 15 | 79 | | | 2 | | |
| 1144 | 240 | 80/08/27 | 0508:55 | 0509:05 | 20 | 63 | | | 2 | | |
| 1145 | 240 | 80/08/27 | 0658:30 | 0658:35 | 40 | 84 | | | 2 | | |
| 1146 | 240 | 80/08/27 | 0803:40 | 0804:20 | 60 | 134 | 1020 | | 2 | 44, 4 | M |
| 1147 | 240 | 80/08/27 | 0818:45 | 0819:12 | 90 | 518 | 4500 | | 5 | 44, 5 | M |
| 1148 | 240 | 80/08/27 | 1021:50 | 1022:10 | 90 | 45 | | | 2 | | |
| 1149 | 240 | 80/08/27 | 1136:05 | 1137:25 | 270 | 294 | 12150 | | 5 | 44, 6 | M |
| 1150 | 240 | 80/08/27 | 1226:20 | 1226:45 | 60 | 60 | | | 2 | | |
| 1151 | 240 | 80/08/27 | 1322:20 | 1327:15 | 1025 | 165 | 35875 | | 2 | 44, 9 | M |
| 1152 | 240 | 80/08/27 | 1610:50 | 1612:20 | 150 | 222 | 5100 | | 5 | 44, 11 | |
| 1153 | 240 | 80/08/27 | 1738:40 | 1738:55 | 40 | 62 | | | 2 | | |
| 1154 | 240 | 80/08/27 | 2243:40 | 2244:15 | 90 | 84 | | | 2 | | |
| 1155 | 241 | 80/08/28 | 0028:25 | 0029:20 | 120 | 136 | 2040 | | 2 | 44, 12 | |
| 1156 | 241 | 80/08/28 | 0356:55 | 0357:10 | 60 | 70 | | | 2 | | |
| 1157 | 241 | 80/08/28 | 1157:45 | 1158:05 | 60 | 114 | 780 | | 2 | 44, 13 | M |
| 1158 | 241 | 80/08/28 | 1248:05 | 1249:30 | 250 | 149 | 6750 | | 10 | 44, 14 | M |
| 1159 | 241 | 80/08/28 | 1556:05 | 1556:30 | 80 | 73 | | | 2 | | |
| 1160 | 241 | 80/08/28 | 1726:30 | 1726:50 | 65 | 205 | 1820 | | 5 | 44, 16 | |
| 1161 | 242 | 80/08/29 | 0803:10 | 0803:40 | 60 | 68 | | | 2 | | |
| 1162 | 242 | 80/08/29 | 0931:50 | 0932:05 | 60 | 95 | | | 2 | | |
| 1163 | 242 | 80/08/29 | 1238:20 | 1238:50 | 80 | 69 | | | 2 | | |
| 1164 | 243 | 80/08/30 | 0140:10 | 0140:20 | 35 | 81 | | | 2 | | |
| 1165 | 243 | 80/08/30 | 0301:15 | 0301:25 | 30 | 72 | | | 2 | | |
| 1166 | 243 | 80/08/30 | 0304:20 | 0305:05 | 80 | 470 | 6600 | | 5 | 45, 1 | M |
| 1167 | 243 | 80/08/30 | 0529:30 | 0529:45 | 60 | 104 | 750 | | 2 | 45, 3 | M |
| 1168 | 243 | 80/08/30 | 0623:05 | 0624:45 | 190 | 97 | | | 2 | | |
| 1169 | 243 | 80/08/30 | 0647:20 | 0647:50 | 100 | 197 | 3550 | | 5 | 45, 4 | M |
| 4419 | 243 | 80/08/30 | 0803:10 | 0809:15 | 520 | 122 | 6702 | | 2 | 146, 16 | I |
| 1170 | 243 | 80/08/30 | 0950:55 | 0951:10 | 60 | 66 | | | 5 | | |
| 1171 | 243 | 80/08/30 | 1236:50 | 1243:00 | 620 | 208 | 14260 | | 2 | 45, 6 | M |
| 1172 | 243 | 80/08/30 | 1922:30 | 1922:49 | 60 | 99 | | | 2 | | |
| 1173 | 244 | 80/08/31 | 0012:10 | 0012:50 | 220 | 174 | 6160 | | 2 | 45, 8 | |
| 1174 | 244 | 80/08/31 | 0316:05 | 0316:30 | 65 | 85 | | | 2 | | |
| 1175 | 244 | 80/08/31 | 0840:55 | 0841:15 | 60 | 94 | | | 2 | | |
| 1176 | 244 | 80/08/31 | 0923:20 | 0923:50 | 90 | 1255 | 14220 | | 10 | 45, 9 | |
| 1177 | 244 | 80/08/31 | 0925:00 | 0925:35 | 205 | 1115 | 27675 | | 10 | 45, 9 | |
| 1178 | 244 | 80/08/31 | 0959:05 | 1000:20 | 90 | 94 | | | 2 | | |
| 1179 | 244 | 80/08/31 | 1059:30 | 1100:25 | 180 | 51 | | | 2 | | |
| 1180 | 244 | 80/08/31 | 1237:40 | 1239:40 | 295 | 99 | 5458 | | 10 | 45, 11 | |
| 1181 | 244 | 80/08/31 | 1247:55 | 1248:50 | 120 | 7360 | 91200 | 2346 | 15 | 45, 11 | |
| 1182 | 244 | 80/08/31 | 1251:00 | 1252:15 | 170 | 3673 | 1.24E+05 | 2346 | 15 | 45, 11 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1183 | 244 | 80/08/31 | 1302:35 | 1302:55 | 60 | 65 | | | 2 | | |
| 1184 | 244 | 80/08/31 | 1324:45 | 1329:30 | 300 | 1791 | 1.89E+05 | | 5 | 45, 12 | M |
| 1185 | 244 | 80/08/31 | 1730:00 | 1730:29 | 60 | 64 | | | 2 | | |
| 1186 | 244 | 80/08/31 | 1749:10 | 1749:18 | 14 | 205 | 849 | | 5 | 45, 13 | M |
| 1187 | 245 | 80/09/01 | 0001:51 | 0001:51 | 37 | 164 | 1446 | | 5 | 45, 14 | |
| 1188 | 245 | 80/09/01 | 0345:20 | 0345:35 | 25 | 70 | | | 2 | | |
| 1189 | 245 | 80/09/01 | 0521:00 | 0523:45 | 380 | 161 | 12165 | | 2 | 45, 16 | |
| 1190 | 245 | 80/09/01 | 0639:44 | 0640:16 | 48 | 71 | | | 2 | | |
| 1191 | 245 | 80/09/01 | 0701:31 | 0701:40 | 27 | 85 | | | 2 | | |
| 1192 | 245 | 80/09/01 | 0921:03 | 0921:11 | 20 | 84 | | | 2 | | |
| 1193 | 245 | 80/09/01 | 0937:51 | 0939:14 | 600 | 90 | | | 2 | | |
| 1194 | 245 | 80/09/01 | 1122:48 | 1123:02 | 60 | 86 | | | 2 | | |
| 1195 | 245 | 80/09/01 | 1255:00 | 1256:03 | 115 | 86 | | | 2 | | AX |
| 1196 | 245 | 80/09/01 | 1410:34 | 1410:41 | 18 | 70 | | | 2 | | AX |
| 1197 | 245 | 80/09/01 | 1723:55 | 1724:40 | 80 | 179 | 1920 | | 5 | 46, 1 | |
| 1198 | 245 | 80/09/01 | 1854:15 | 1855:05 | 140 | 122 | 2380 | | 2 | 46, 2 | |
| 1199 | 245 | 80/09/01 | 2232:55 | 2233:15 | 80 | 130 | 560 | | 2 | 46, 3 | |
| 1200 | 246 | 80/09/02 | 0015:40 | 0016:25 | 180 | 147 | 2520 | | 5 | 46, 4 | |
| 1201 | 247 | 80/09/03 | 0135:50 | 0136:15 | 60 | 120 | 1080 | | 2 | 46, 5 | |
| 1202 | 247 | 80/09/03 | 0138:00 | 0138:30 | 60 | 81 | | | 2 | | |
| 1203 | 247 | 80/09/03 | 0316:55 | 0318:20 | 120 | 71 | | | 2 | | |
| 1204 | 247 | 80/09/03 | 0510:45 | 0512:30 | 195 | 82 | | | 2 | | |
| 1205 | 247 | 80/09/03 | 0633:40 | 0635:20 | 160 | 42 | | | 2 | | |
| 1206 | 247 | 80/09/03 | 1420:30 | 1421:20 | 100 | 285 | 9300 | | 5 | 46, 6 | M |
| 1207 | 247 | 80/09/03 | 1736:15 | 1737:05 | 75 | 110 | 825 | | 2 | 46, 8 | |
| 1208 | 247 | 80/09/03 | 1858:55 | 1859:30 | 50 | 104 | 500 | | 2 | 46, 9 | |
| 1209 | 247 | 80/09/03 | 2051:10 | 2056:30 | 540 | 121 | 12420 | | 2 | 46, 10 | |
| 1210 | 248 | 80/09/04 | 0155:05 | 0201:20 | 795 | 12860 | 1.11E+06 | | 10 | 46, 11 | |
| 1211 | 248 | 80/09/04 | 0246:35 | 0248:55 | 170 | 73 | | | 2 | | |
| 1212 | 248 | 80/09/04 | 0301:15 | 0301:40 | 60 | 71 | | | 2 | | |
| 1213 | 248 | 80/09/04 | 1057:15 | 1057:30 | 40 | 130 | 760 | | 2 | 46, 2 | |
| 1214 | 248 | 80/09/04 | 1106:00 | 1106:10 | 30 | 87 | | | 2 | | |
| 1215 | 248 | 80/09/04 | 2215:00 | 2216:54 | 440 | 1801 | 1.20E+05 | 2645 | 5 | 46, 3 | |
| 1216 | 249 | 80/09/05 | 0011:45 | 0011:55 | 35 | 84 | | | 2 | | |
| 1217 | 250 | 80/09/06 | 0900:40 | 0901:15 | 100 | 132 | | | 2 | 46, 14 | SN |
| 1218 | 250 | 80/09/06 | 0955:25 | 0956:25 | 110 | 57 | | | 2 | | |
| * 1219 | 251 | 80/09/07 | 0322:30 | 0323:40 | 225 | 287 | 5625 | | 5 | 46, 15 | M |
| * 1220 | 252 | 80/09/08 | 0501:05 | 0503:50 | 505 | 3346 | 1.99E+05 | | 10 | 47, 1 | M |
| * 1221 | 252 | 80/09/08 | 0545:10 | 0545:20 | 95 | 78 | | | 2 | | |
| * 1222 | 252 | 80/09/08 | 1043:20 | 1043:50 | 70 | 72 | | | 2 | | |
| * 1223 | 252 | 80/09/08 | 1442:55 | 1443:50 | 95 | 135 | 2945 | | 2 | 47, 2 | |
| * 1224 | 253 | 80/09/09 | 0146:20 | 0147:00 | 100 | 67 | | | 2 | | |
| * 1225 | 253 | 80/09/09 | 1527:55 | 1530:30 | 175 | 80 | | | 2 | | |
| 1226 | 253 | 80/09/09 | 2320:45 | 2321:35 | 115 | 75 | | | 2 | | |
| 1227 | 254 | 80/09/10 | 2152:40 | 2157:35 | 1030 | 310 | 34680 | | 2 | 47, 3 | |
| 1228 | 255 | 80/09/11 | 0142:55 | 0146:15 | 305 | 72 | 2135 | | 2 | 47, 5 | |
| 1229 | 255 | 80/09/11 | 0634:45 | 0635:30 | 80 | 104 | 2080 | | 2 | 47, 6 | |
| 1230 | 255 | 80/09/11 | 0748:40 | 0748:50 | 75 | 48 | | | 2 | | |
| 1231 | 255 | 80/09/11 | 2215:00 | 2216:00 | 60 | 106 | 780 | | 2 | 47, 7 | |
| 1232 | 256 | 80/09/12 | 0047:00 | 0052:10 | 500 | 81 | 4500 | | 2 | 47, 8 | |
| 1233 | 256 | 80/09/12 | 0546:00 | 0546:35 | 260 | 350 | 12480 | | 5 | 47, 9 | |
| 1234 | 257 | 80/09/13 | 0922:05 | 0922:45 | 140 | 139 | 2800 | | 5 | 47, 11 | |
| 1235 | 257 | 80/09/13 | 2144:05 | 2145:10 | 115 | 48 | 345 | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

39

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1236 | 263 | 80/09/19 | 0727:10 | 0727:45 | 70 | 111 | 910 | | 5 | 47, 12 | |
| 1237 | 264 | 80/09/20 | 0256:00 | 0256:55 | 190 | 77 | | | 2 | | |
| 1238 | 264 | 80/09/20 | 1409:40 | 1410:00 | 175 | 99 | | | 2 | | |
| 1239 | 264 | 80/09/20 | 1938:45 | 1940:40 | 180 | 95 | | | 2 | | |
| 1240 | 264 | 80/09/20 | 2013:15 | 2014:30 | 235 | 163 | 3878 | | 2 | 47, 13 | |
| 1241 | 264 | 80/09/20 | 2119:50 | 2121:55 | 435 | 185 | 10875 | | 10 | 47, 14 | AX |
| 1242 | 264 | 80/09/20 | 2342:50 | 2344:30 | 175 | 65 | | | 2 | | |
| 1243 | 265 | 80/09/21 | 0111:15 | 0111:40 | 70 | 69 | | | 2 | | |
| 5480 | 265 | 80/09/21 | 1058:03 | 1058:18 | 92 | 99 | | | 2 | | |
| 1244 | 266 | 80/09/22 | 0539:00 | 0540:00 | 180 | 152 | 6480 | | 5 | 47, 15 | |
| 1245 | 266 | 80/09/22 | 2022:10 | 2022:55 | 185 | 70 | | | 2 | | |
| 1246 | 266 | 80/09/22 | 2136:20 | 2136:50 | 110 | 73 | | | 2 | | |
| 1247 | 267 | 80/09/23 | 0221:25 | 0222:30 | 180 | 76 | | | 2 | | |
| 1248 | 267 | 80/09/23 | 0549:35 | 0550:25 | 165 | 82 | | | 2 | | |
| 1249 | 267 | 80/09/23 | 2152:30 | 2153:50 | 170 | 36 | | | 2 | | |
| 1250 | 268 | 80/09/24 | 0353:05 | 0353:30 | 115 | 44 | | | 2 | | |
| 1251 | 268 | 80/09/24 | 0727:20 | 0732:47 | 825 | 720 | 60200 | | 10 | 48, 1 | M |
| 1252 | 268 | 80/09/24 | 1226:30 | 1226:45 | 55 | 152 | 800 | | 2 | 48, 2 | M |
| 1253 | 269 | 80/09/25 | 1631:15 | 1633:35 | 500 | 147 | | | 2 | | |
| 1254 | 269 | 80/09/25 | 2145:10 | 2145:20 | 40 | 99 | | | 2 | | |
| 1255 | 270 | 80/09/26 | 0859:15 | 0859:35 | 70 | 73 | | | 2 | | |
| 1256 | 270 | 80/09/26 | 1037:40 | 1037:50 | 50 | 349 | 2800 | | 5 | 48, 3 | |
| 1257 | 270 | 80/09/26 | 1517:45 | 1521:00 | 210 | 100 | 840 | | 2 | 48, 4 | |
| 1258 | 271 | 80/09/27 | 0156:30 | 0157:30 | 125 | 90 | | | 2 | | |
| 1259 | 271 | 80/09/27 | 1459:20 | 1459:40 | 65 | 148 | 1820 | | 5 | 48, 5 | |
| 1260 | 271 | 80/09/27 | 2314:55 | 2315:20 | 65 | 96 | | | 2 | | |
| 1261 | 272 | 80/09/28 | 0711:35 | 0712:15 | 75 | 128 | 450 | | 2 | 48, 6 | |
| 1262 | 272 | 80/09/28 | 2324:30 | 2324:50 | 60 | 71 | | | 2 | | |
| 1263 | 273 | 80/09/29 | 0041:55 | 0042:05 | 25 | 71 | | | 2 | | |
| 1264 | 273 | 80/09/29 | 0218:40 | 0219:35 | 50 | 87 | | | 2 | | |
| 1265 | 273 | 80/09/29 | 0504:00 | 0505:05 | 210 | 161 | 7560 | | 2 | 48, 7 | |
| 1266 | 273 | 80/09/29 | 2239:15 | 2240:40 | 105 | 715 | 7245 | | 10 | 48, 8 | |
| 1267 | 273 | 80/09/29 | 2244:35 | 2245:55 | 180 | 201 | 3960 | | 5 | 48, 8 | |
| 1268 | 274 | 80/09/30 | 1148:20 | 1149:15 | 435 | 558 | 14790 | | 5 | 48, 9 | |
| 1269 | 275 | 80/10/01 | 0022:35 | 0023:10 | 75 | 60 | | | 2 | | |
| 1270 | 275 | 80/10/01 | 0035:50 | 0037:55 | 235 | 136 | 2585 | | 5 | 48, 10 | |
| 1271 | 275 | 80/10/01 | 1009:50 | 1010:40 | 80 | 42 | | | 2 | | |
| 1272 | 275 | 80/10/01 | 1304:05 | 1306:05 | 190 | 65 | | | 2 | | |
| 1273 | 275 | 80/10/01 | 1506:15 | 1507:15 | 170 | 142 | 3570 | | 5 | 48, 11 | |
| 1274 | 275 | 80/10/01 | 2001:00 | 2002:35 | 310 | 62 | 1240 | | 2 | 48, 12 | |
| 1275 | 276 | 80/10/02 | 0156:15 | 0159:05 | 370 | 83 | 3700 | | 2 | 48, 13 | |
| 1276 | 276 | 80/10/02 | 0312:25 | 0313:20 | 140 | 141 | 5320 | | 5 | 48, 14 | |
| 1277 | 277 | 80/10/03 | 0820:30 | 0822:00 | 250 | 115 | 2750 | | 2 | 48, 15 | |
| 1278 | 277 | 80/10/03 | 1735:30 | 1735:55 | 75 | 56 | | | 2 | | AX |
| 1279 | 278 | 80/10/04 | 0512:55 | 0513:15 | 55 | 201 | 1375 | | 2 | 48, 16 | |
| 1280 | 278 | 80/10/04 | 1643:05 | 1643:25 | 50 | 61 | | | 2 | | |
| 1281 | 279 | 80/10/05 | 1251:10 | 1251:30 | 75 | 94 | | | 2 | | |
| 1282 | 279 | 80/10/05 | 1603:18 | 1603:20 | 30 | 95 | | | 2 | | |
| 1283 | 279 | 80/10/05 | 1614:03 | 1614:04 | 30 | 75 | | | 2 | | |
| 1284 | 279 | 80/10/05 | 1754:40 | 1755:15 | 90 | 75 | | | 2 | | |
| 1285 | 280 | 80/10/06 | 0120:15 | 0123:30 | 295 | 294 | 10915 | | 5 | 49, 1 | |
| 1286 | 280 | 80/10/06 | 1436:00 | 1436:55 | 330 | 112 | 1320 | | 5 | 49, 2 | |
| 1287 | 280 | 80/10/06 | 2114:35 | 2115:30 | 160 | 318 | 5280 | | 5 | 49, 3 | |

OF FOUR COLUMNS

40

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX UH. # | FLARE TAPE# FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|-------------------------|-------|
| 1288 | 281 | 80/10/07 | 0007:15 | 0007:35 | 155 | 65 | | | 2 | | |
| 1289 | 281 | 80/10/07 | 0029:40 | 0030:40 | 130 | 138 | 2210 | | 2 | 49, 4 | |
| 1290 | 281 | 80/10/07 | 0203:40 | 0204:25 | 105 | 79 | | | 2 | | |
| 1291 | 281 | 80/10/07 | 0302:35 | 0303:50 | 155 | 107 | 1240 | | 2 | 49, 5 | |
| 1292 | 281 | 80/10/07 | 0926:25 | 0928:50 | 735 | 485 | 73500 | 2725 | 5 | 49, 6 | |
| 4281 | 281 | 80/10/07 | 1409:55 | 1412:50 | 595 | 479 | 27174 | | 4 | 144, 1 | I |
| 4282 | 281 | 80/10/07 | 1422:10 | 1430:30 | 1049 | 241 | 20263 | | 2 | 144, 1 | I |
| 4283 | 281 | 80/10/07 | 1502:40 | 1503:40 | 90 | 57 | | | 2 | 144, 1 | I |
| 1293 | 281 | 80/10/07 | 1558:15 | 1608:50 | 1162 | 119 | 17835 | 2712 | 2 | 201, 1 | |
| 1294 | 281 | 80/10/07 | 1719:55 | 1721:10 | 135 | 372 | 5265 | | 5 | 49, 8 | |
| 1295 | 281 | 80/10/07 | 1855:00 | 1856:10 | 120 | 64 | | | 2 | | |
| 1296 | 282 | 80/10/08 | 0138:15 | 0141:35 | 555 | 736 | | 2725 | 5 | 49, 9 | |
| 1297 | 282 | 80/10/08 | 0206:10 | 0207:10 | 155 | 88 | | | 2 | | |
| 1298 | 282 | 80/10/08 | 0258:00 | 0258:50 | 185 | 92 | | | 2 | | |
| 1299 | 282 | 80/10/08 | 0334:05 | 0335:35 | 210 | 135 | | | 2 | 49, 10 | |
| 1300 | 282 | 80/10/08 | 0822:30 | 0823:30 | 125 | 75 | | | 2 | | |
| 1301 | 282 | 80/10/08 | 0955:05 | 0956:00 | 135 | 66 | | | 2 | | |
| 1302 | 282 | 80/10/08 | 1051:20 | 1052:35 | 155 | 88 | | | 2 | | |
| 1303 | 282 | 80/10/08 | 1058:40 | 1059:50 | 155 | 74 | | | 2 | | |
| 1304 | 282 | 80/10/08 | 1311:50 | 1313:15 | 180 | 79 | | 2726 | 2 | | |
| 1305 | 282 | 80/10/08 | 1411:35 | 1412:45 | 155 | 247 | 3565 | | 5 | 49, 11 | |
| 1306 | 282 | 80/10/08 | 1534:45 | 1536:05 | 410 | 1070 | 72160 | 2717 | 5 | 49, 12 | |
| 1307 | 282 | 80/10/08 | 1914:25 | 1916:20 | 365 | 219 | 7665 | | 5 | 49, 14 | |
| 1308 | 282 | 80/10/08 | 2022:30 | 2027:30 | 1350 | 2443 | 3.58E+05 | 2725 | 10 | 49, 15 | M |
| 1309 | 283 | 80/10/09 | 0742:05 | 0743:20 | 190 | 72 | | | 2 | | |
| 1310 | 283 | 80/10/09 | 1109:35 | 1110:45 | 125 | 63 | | | 2 | | |
| 1311 | 283 | 80/10/09 | 1123:25 | 1124:55 | 1440 | 26608 | 1.83E+06 | 2726 | 5 | 50, 1 | |
| 1312 | 283 | 80/10/09 | 1405:25 | 1406:10 | 85 | 78 | | | 2 | | |
| 1313 | 283 | 80/10/09 | 1748:30 | 1749:45 | 360 | 184 | 4320 | | 2 | 50, 2 | |
| 1314 | 283 | 80/10/09 | 1929:20 | 1929:55 | 90 | 143 | 1710 | | 2 | 50, 3 | |
| 1315 | 283 | 80/10/09 | 2218:50 | 2219:59 | 190 | 202 | 8170 | | 2 | 50, 4 | |
| 1316 | 284 | 80/10/10 | 0022:30 | 0023:50 | 180 | 70 | | | 2 | | |
| 1317 | 284 | 80/10/10 | 0126:00 | 0126:50 | 130 | 156 | 1560 | | 2 | 50, 5 | |
| 1318 | 284 | 80/10/10 | 0133:15 | 0133:50 | 190 | 77 | | | 2 | | |
| 1319 | 284 | 80/10/10 | 0330:40 | 0333:15 | 320 | 91 | 4160 | | 2 | 50, 6 | |
| 1320 | 284 | 80/10/10 | 0628:30 | 0631:50 | 600 | 76 | 3600 | | 2 | 50, 7 | |
| 1321 | 284 | 80/10/10 | 0649:00 | 0650:30 | 180 | 96 | | | 2 | | |
| 1322 | 284 | 80/10/10 | 1049:05 | 1050:45 | 830 | 495 | 43990 | 2725 | 5 | 50, 8 | |
| 1323 | 284 | 80/10/10 | 1126:05 | 1127:15 | 385 | 110 | 4620 | 2725 | 2 | 50, 9 | |
| 1324 | 284 | 80/10/10 | 1136:35 | 1137:20 | 135 | 66 | | 2725 | 2 | | |
| 1325 | 284 | 80/10/10 | 1713:10 | 1713:30 | 120 | 96 | | 2726 | 2 | | |
| 5668 | 284 | 80/10/10 | 1918:29 | 1918:46 | 34 | 206 | 1391 | | 4 | 181, 1 | I |
| 1326 | 285 | 80/10/11 | 0452:55 | 0454:23 | 150 | 68 | | 2726 | 2 | | |
| 1327 | 285 | 80/10/11 | 0503:10 | 0506:55 | 355 | 78 | 1775 | 2726 | 2 | 50, 10 | |
| 1328 | 285 | 80/10/11 | 0610:00 | 0610:40 | 80 | 298 | 2960 | | 5 | 50, 11 | |
| 1329 | 285 | 80/10/11 | 0814:25 | 0815:30 | 145 | 91 | | 2726 | 2 | | |
| 1330 | 285 | 80/10/11 | 0819:00 | 0819:45 | 70 | 116 | 1330 | 2726 | 2 | 50, 12 | |
| 1331 | 285 | 80/10/11 | 1303:35 | 1304:40 | 130 | 84 | | | 2 | | |
| 1332 | 285 | 80/10/11 | 1405:55 | 1408:45 | 435 | 91 | 6090 | | 10 | 50, 13 | AX |
| 1333 | 285 | 80/10/11 | 1740:00 | 1741:40 | 215 | 1606 | 62995 | 2725 | 5 | 50, 14 | |
| 1334 | 285 | 80/10/11 | 2015:05 | 2018:35 | 305 | 102 | 3355 | 2724 | 2 | 50, 15 | |
| 1335 | 285 | 80/10/11 | 2343:50 | 2346:20 | 310 | 109 | 4340 | 2724 | 2 | 50, 16 | |
| 1336 | 286 | 80/10/12 | 0006:10 | 0007:10 | 150 | 72 | | | 2 | | |

ORIGINAL PEAK IS
OF POOR QUALITY.

41

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1337 | 286 | 80/10/12 | 0156:25 | 0157:10 | 85 | 142 | 1785 | 2724 | 2 | 51, 1 | |
| 1338 | 286 | 80/10/12 | 0158:40 | 0159:25 | 110 | 193 | 1650 | 2724 | 2 | 51, 1 | |
| 1339 | 286 | 80/10/12 | 0429:25 | 0430:10 | 85 | 78 | | 2713 | 2 | | |
| 1340 | 286 | 80/10/12 | 0559:45 | 0601:00 | 155 | 92 | | | 2 | | |
| 1341 | 286 | 80/10/12 | 0726:45 | 0728:00 | 240 | 156 | 5280 | | 2 | 51, 2 | |
| 1342 | 286 | 80/10/12 | 0806:15 | 0807:00 | 95 | 75 | | | 2 | | |
| 1343 | 286 | 80/10/12 | 0927:20 | 0931:20 | 280 | 75 | 840 | 2725 | 2 | 51, 3 | |
| 1344 | 286 | 80/10/12 | 1047:30 | 1048:10 | 120 | 70 | | | 2 | | |
| 1345 | 286 | 80/10/12 | 1218:50 | 1219:30 | 95 | 114 | 855 | | 2 | 51, 4 | |
| 1346 | 286 | 80/10/12 | 1552:50 | 1553:55 | 150 | 697 | 13050 | 2725 | 5 | 51, 5 | |
| 1347 | 286 | 80/10/12 | 2148:10 | 2148:55 | 105 | 74 | | | 2 | | |
| 1348 | 287 | 80/10/13 | 0311:25 | 0312:10 | 100 | 75 | | 2724 | 2 | | |
| 1349 | 287 | 80/10/13 | 0323:20 | 0324:10 | 75 | 167 | 1425 | 2724 | 2 | 51, 6 | |
| 1350 | 287 | 80/10/13 | 0411:35 | 0416:40 | 600 | 756 | 88800 | 2725 | 5 | 51, 7 | |
| 1351 | 287 | 80/10/13 | 0616:40 | 0617:45 | 205 | 729 | 22960 | 2717 | 5 | 51, 8 | |
| 1352 | 287 | 80/10/13 | 0742:55 | 0745:35 | 320 | 76 | 960 | 2724 | 2 | , 9 | |
| 1353 | 287 | 80/10/13 | 0749:30 | 0751:35 | 310 | 69 | 630 | 2724 | 2 | 51, 9 | |
| 1354 | 287 | 80/10/13 | 0821:10 | 0821:55 | 190 | 76 | | 2724 | 2 | | |
| 1355 | 287 | 80/10/13 | 0940:50 | 0943:51 | 781 | 1982 | 1.16E+05 | 2724 | 5 | 51, 10 | M |
| 1356 | 287 | 80/10/13 | 1110:20 | 1111:40 | 160 | 70 | | | 2 | | |
| 1357 | 287 | 80/10/13 | 1357:20 | 1357:45 | 60 | 90 | | | 2 | | |
| 1358 | 287 | 80/10/13 | 1547:50 | 1548:20 | 85 | 122 | 1627 | 2725 | 2 | 51, 11 | |
| 1359 | 287 | 80/10/13 | 1842:55 | 1844:15 | 190 | 59 | | | 2 | | |
| 1360 | 287 | 80/10/13 | 2009:25 | 2010:05 | 125 | 74 | | 2725 | 2 | | |
| 1361 | 287 | 80/10/13 | 2012:20 | 2013:25 | 170 | 62 | | | 2 | | |
| 1362 | 287 | 80/10/13 | 2018:30 | 2019:00 | 65 | 126 | 1625 | 2717 | 2 | 51, 12 | |
| 1363 | 287 | 80/10/13 | 2034:30 | 2035:45 | 170 | 204 | 3740 | 2717 | 5 | 51, 13 | |
| 1364 | 287 | 80/10/13 | 2213:45 | 2215:30 | 250 | 289 | | 2717 | 2 | 51, 14 | |
| 1365 | 287 | 80/10/13 | 2321:40 | 2321:55 | 60 | 133 | | 2724 | 2 | 51, 15 | |
| 1366 | 287 | 80/10/13 | 2338:20 | 2339:35 | 95 | 75 | | 2725 | 2 | | |
| 1367 | 287 | 80/10/13 | 2345:40 | 2347:10 | 300 | 80 | | 2725 | 2 | 51, 16 | |
| 1368 | 288 | 80/10/14 | 0010:45 | 0011:30 | 125 | 175 | | 2736 | 5 | 52, 1 | M |
| 1369 | 288 | 80/10/14 | 0237:10 | 0237:45 | 60 | 162 | | 2724 | 2 | 52, 2 | |
| 1370 | 288 | 80/10/14 | 0245:05 | 0245:30 | 350 | 266 | | 2724 | 5 | 52, 3 | |
| 1371 | 288 | 80/10/14 | 0253:00 | 0257:40 | 440 | 75 | | 2724 | 2 | 52, 4 | |
| 1372 | 288 | 80/10/14 | 0412:55 | 0413:15 | 35 | 712 | | 2724 | 5 | 52, 5 | |
| 1373 | 288 | 80/10/14 | 0544:15 | 0546:15 | 515 | 399 | | 2725 | 5 | 52, 6 | SN |
| 1374 | 288 | 80/10/14 | 0557:50 | 0608:55 | 2110 | 39583 | | | 15 | 52, 6 | M |
| 1375 | 288 | 80/10/14 | 0800:50 | 0801:35 | 110 | 248 | | | 2 | 52, 7 | |
| 1376 | 288 | 80/10/14 | 0805:50 | 0808:05 | 300 | 94 | | | 2 | 52, 8 | |
| 1377 | 288 | 80/10/14 | 0919:15 | 0919:40 | 55 | 70 | | | 2 | | |
| 1378 | 288 | 80/10/14 | 0942:55 | 0943:50 | 195 | 167 | | | 5 | 52, 9 | |
| 1379 | 288 | 80/10/14 | 1100:30 | 1101:55 | 180 | 78 | | | 2 | | |
| 1380 | 288 | 80/10/14 | 1344:00 | 1345:00 | 205 | 147 | | | 2 | 52, 10 | |
| 1381 | 288 | 80/10/14 | 1400:25 | 1403:50 | 295 | 310 | | 2724 | 2 | 52, 11 | |
| 1382 | 288 | 80/10/14 | 1548:00 | 1549:30 | 155 | 83 | | | 2 | | |
| 1383 | 288 | 80/10/14 | 1553:00 | 1553:50 | 100 | 83 | | | 2 | | |
| 1384 | 288 | 80/10/14 | 1857:00 | 1858:00 | 120 | 90 | | 2724 | 2 | | |
| 1385 | 288 | 80/10/14 | 2203:45 | 2204:05 | 50 | 81 | | | 2 | | |
| 1386 | 288 | 80/10/14 | 2222:00 | 2223:05 | 95 | 177 | 380 | | 2 | 52, 12 | |
| 1387 | 288 | 80/10/14 | 2224:15 | 2224:50 | 80 | 84 | | | 2 | | |
| 1388 | 289 | 80/10/15 | 0057:00 | 0057:45 | 95 | 93 | | | 2 | | |
| 1389 | 289 | 80/10/15 | 0107:00 | 0107:55 | 80 | 95 | | | 2 | | |

CRITICAL POINT QUALITY

42

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 1390 | 289 | 80/10/15 | 0116:25 | 0116:50 | 90 | 329 | 1800 | | 5 | 52, 13 | |
| 1391 | 289 | 80/10/15 | 0229:40 | 0230:25 | 135 | 157 | 3915 | | 2 | 52, 14 | |
| 1392 | 289 | 80/10/15 | 0240:00 | 0240:45 | 65 | 160 | 715 | 2725 | 5 | 52, 15 | |
| 1393 | 289 | 80/10/15 | 0303:40 | 0305:20 | 255 | 102 | 9180 | | 2 | 52, 16 | |
| 1394 | 289 | 80/10/15 | 0309:50 | 0310:10 | 115 | 127 | 1035 | | 2 | 52, 16 | |
| 1395 | 289 | 80/10/15 | 0423:10 | 0423:25 | 45 | 90 | | 2741 | 2 | | |
| 5696 | 289 | 80/10/15 | 0627:27 | 0630:06 | 187 | 82 | | | 2 | | I |
| 5697 | 289 | 80/10/15 | 0640:12 | 0640:48 | 120 | 74 | | | 2 | | I |
| 1396 | 289 | 80/10/15 | 0805:20 | 0806:30 | 140 | 87 | | 2724 | 2 | | |
| 1397 | 289 | 80/10/15 | 1036:50 | 1037:20 | 115 | 73 | | | 2 | | |
| 1398 | 289 | 80/10/15 | 1116:20 | 1117:05 | 140 | 90 | | | 2 | | |
| 1399 | 289 | 80/10/15 | 1122:05 | 1122:35 | 140 | 70 | | | 2 | | |
| 1400 | 289 | 80/10/15 | 1204:40 | 1205:05 | 50 | 63 | | | 2 | | |
| 1401 | 289 | 80/10/15 | 1242:05 | 1247:10 | 710 | 531 | 83780 | 2724 | 5 | 53, 1 | |
| 1402 | 289 | 80/10/15 | 1529:45 | 1530:45 | 195 | 71 | 975 | | 2 | 53, 2 | |
| 1403 | 289 | 80/10/15 | 1548:50 | 1549:45 | | 152 | 3400 | | 2 | 53, 3 | M, IS, ES |
| 1404 | 289 | 80/10/15 | 2021:35 | 2022:05 | 90 | 91 | | | 2 | | |
| 1405 | 289 | 80/10/15 | 2030:50 | 2031:30 | 70 | 89 | | | 2 | | |
| 1406 | 289 | 80/10/15 | 2344:35 | 2346:15 | 150 | 88 | | | 2 | | |
| 1407 | 290 | 80/10/16 | 0453:20 | 0453:55 | 90 | 94 | | | 2 | | |
| 1408 | 290 | 80/10/16 | 0750:40 | 0751:15 | 170 | 97 | | | 2 | | |
| 1409 | 290 | 80/10/16 | 0935:50 | 0936:30 | 150 | 87 | | | 2 | | |
| 1410 | 290 | 80/10/16 | 1339:55 | 1340:10 | 40 | 107 | 549 | 2734 | 2 | 53, 4 | |
| 1411 | 290 | 80/10/16 | 1651:50 | 1652:55 | 145 | 130 | 1740 | 2724 | 2 | 53, 5 | |
| 1412 | 290 | 80/10/16 | 2013:45 | 2014:20 | 65 | 110 | 910 | | 2 | 53, 6 | |
| 1413 | 290 | 80/10/16 | 2015:50 | 2016:35 | 95 | 89 | | | 2 | | |
| 1414 | 290 | 80/10/16 | 2345:50 | 2346:35 | 120 | 399 | 6480 | 2724 | 5 | 53, 7 | |
| 1415 | 291 | 80/10/17 | 1039:00 | 1039:55 | 190 | 164 | 1900 | | 5 | 53, 8 | |
| 1416 | 291 | 80/10/17 | 1102:25 | 1103:00 | 70 | 73 | | | 2 | | |
| 1417 | 291 | 80/10/17 | 1200:05 | 1200:15 | 105 | 86 | | | 2 | | |
| 1418 | 291 | 80/10/17 | 1339:45 | 1341:20 | 185 | 71 | | 2725 | 2 | | |
| 5698 | 291 | 80/10/17 | 1349:02 | 1349:33 | 90 | 147 | 2365 | | 2 | 181, 15 | I |
| 1419 | 291 | 80/10/17 | 1837:50 | 1838:40 | 110 | 72 | | | 2 | | |
| 1420 | 291 | 80/10/17 | 2012:20 | 2013:00 | 200 | 442 | 13200 | 2744 | 5 | 53, 9 | |
| 1421 | 291 | 80/10/17 | 2136:55 | 2143:35 | 545 | 80 | 5450 | | 2 | 53, 10 | |
| 1422 | 291 | 80/10/17 | 2154:20 | 2155:10 | 125 | 73 | | 2744 | 2 | | |
| 1423 | 291 | 80/10/17 | 2218:00 | 2218:20 | 65 | 83 | | 2744 | 2 | | |
| 1424 | 291 | 80/10/17 | 2336:00 | 2336:15 | 205 | 524 | 23985 | 2744 | 5 | 53, 11 | |
| 1425 | 291 | 80/10/17 | 2353:00 | 2353:15 | 30 | 121 | 240 | 2744 | 2 | 53, 12 | |
| 1426 | 292 | 80/10/18 | 0125:10 | 0125:40 | 80 | 74 | | | 2 | | |
| 1427 | 292 | 80/10/18 | 0137:55 | 0142:00 | 330 | 167 | 7920 | 2744 | 2 | 53, 13 | ES |
| 1428 | 292 | 80/10/18 | 0236:35 | 0239:55 | 325 | 250 | 5200 | 2725 | 5 | 53, 14 | |
| 1429 | 292 | 80/10/18 | 0318:45 | 0319:55 | 135 | 147 | 2430 | | 2 | 53, 15 | |
| 1430 | 292 | 80/10/18 | 0358:00 | 0358:10 | 180 | 82 | | 2744 | 2 | | |
| 1431 | 292 | 80/10/18 | 0416:20 | 0416:55 | 145 | 94 | | | 2 | | |
| 1432 | 292 | 80/10/18 | 0425:55 | 0427:00 | 165 | 119 | 1815 | 2725 | 2 | 53, 16 | |
| 1433 | 292 | 80/10/18 | 0438:20 | 0439:25 | 200 | 286 | 5000 | 2725 | 2 | 54, 1 | |
| 1434 | 292 | 80/10/18 | 0539:45 | 0540:10 | 75 | 69 | | | 2 | | |
| 1435 | 292 | 80/10/18 | 0542:00 | 0543:00 | 145 | 71 | | | 2 | | |
| 1436 | 292 | 80/10/18 | 0731:40 | 0732:00 | 55 | 67 | | | 2 | | |
| 1437 | 292 | 80/10/18 | 0739:50 | 0741:20 | 130 | 76 | | | 2 | | |
| 5704 | 292 | 80/10/18 | 0939:40 | 0939:51 | 26 | 130 | 888 | | 3 | 182, 4 | I |
| 5705 | 292 | 80/10/18 | 1040:26 | 1044:20 | 382 | 291 | 20075 | | 5 | 182, 5 | I |

ORIGINAL PAGE IS
OF POOR QUALITY

43

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 5706 | 292 | 80/10/18 | 1117:05 | 1117:31 | 82 | 86 | | | 2 | | I |
| 5707 | 292 | 80/10/18 | 1252:42 | 1253:09 | 109 | 107 | 896 | | 2 | 182, 6 | I |
| 5708 | 292 | 80/10/18 | 1506:54 | 1507:15 | 174 | 183 | 3048 | | 2 | 182, 7 | I |
| 1438 | 292 | 80/10/18 | 1522:45 | 1525:10 | 200 | 211 | 6400 | 2744 | 5 | 54, 2 | |
| 1439 | 292 | 80/10/18 | 1819:30 | 1823:25 | 1770 | 370 | 35400 | 2744 | 5 | 54, 3 | |
| 1440 | 292 | 80/10/18 | 2023:20 | 2023:30 | 45 | 95 | | 2744 | 2 | | |
| 1441 | 292 | 80/10/18 | 2130:10 | 2130:35 | 220 | 212 | 7260 | 2744 | 5 | 54, 4 | SN |
| 1442 | 292 | 80/10/18 | 2142:20 | 2143:30 | 150 | 154 | 3000 | 2744 | 2 | 54, 5 | |
| 1443 | 292 | 80/10/18 | 2145:35 | 2146:00 | 560 | 1061 | 43120 | 2744 | 5 | 54, 5 | M |
| 1444 | 292 | 80/10/18 | 2329:20 | 2330:25 | 190 | 82 | | 2744 | 2 | | |
| 1445 | 293 | 80/10/19 | 0046:25 | 0046:45 | 115 | 140 | 1610 | 2739 | 2 | 54, 6 | |
| 4300 | 293 | 80/10/19 | 0230:55 | 0231:05 | 45 | 89 | | | 2 | | I |
| 4301 | 293 | 80/10/19 | 0301:10 | 0301:45 | 180 | 72 | | | 2 | | I |
| 1446 | 293 | 80/10/19 | 0313:20 | 0313:50 | 180 | 112 | 1440 | 2744 | 2 | 54, 7 | |
| 1447 | 293 | 80/10/19 | 0358:45 | 0359:45 | 75 | 78 | | | 2 | | |
| 1448 | 293 | 80/10/19 | 0532:35 | 0540:40 | 865 | 155 | 9515 | | 2 | 54, 8 | |
| 1449 | 293 | 80/10/19 | 0552:30 | 0553:05 | 70 | 144 | 700 | 2744 | 5 | 54, 8 | |
| 1450 | 293 | 80/10/19 | 0608:25 | 0608:40 | 80 | 161 | 1200 | 2739 | 2 | 54, 9 | |
| 4302 | 293 | 80/10/19 | 0713:25 | 0713:35 | 35 | 75 | | | 2 | | I |
| 1451 | 293 | 80/10/19 | 0743:00 | 0743:30 | 70 | 75 | | | 2 | | |
| 1452 | 293 | 80/10/19 | 0746:55 | 0747:35 | 80 | 75 | | | 2 | | |
| 4303 | 293 | 80/10/19 | 0754:10 | 0759:40 | 400 | 73 | 1696 | | 2 | 144, 8 | I |
| 1453 | 293 | 80/10/19 | 0848:20 | 0849:10 | 150 | 109 | 1800 | | 2 | 54, 10 | |
| 1454 | 293 | 80/10/19 | 0900:25 | 0900:55 | 190 | 77 | | 2744 | 2 | | |
| 1455 | 293 | 80/10/19 | 0916:30 | 0917:10 | 230 | 174 | 2070 | 2744 | 2 | 54, 11 | |
| 1456 | 293 | 80/10/19 | 0937:55 | 0938:45 | 165 | 910 | 20460 | 2739 | 5 | 54, 12 | M |
| 1457 | 293 | 80/10/19 | 1237:55 | 1238:30 | 230 | 275 | 16330 | | 5 | 54, 13 | |
| 1458 | 293 | 80/10/19 | 1525:55 | 1526:30 | 70 | 76 | | | 2 | | |
| 1459 | 294 | 80/10/20 | 0901:30 | 0903:00 | 180 | 201 | | 2744 | 2 | 54, 14 | |
| 1460 | 294 | 80/10/20 | 1032:50 | 1033:35 | 420 | 101 | | | 2 | 54, 15 | |
| 1461 | 294 | 80/10/20 | 1149:40 | 1151:05 | 130 | 66 | | | 2 | | |
| 1462 | 294 | 80/10/20 | 1831:15 | 1832:10 | 245 | 4922 | 60025 | 2744 | 10 | 54, 16 | M |
| 1463 | 294 | 80/10/20 | 2305:35 | 2306:15 | 85 | 168 | 975 | | 2 | 55, 1 | |
| 1464 | 295 | 80/10/21 | 0042:40 | 0043:35 | 95 | 230 | 2375 | 2744 | 2 | 55, 2 | |
| 1465 | 295 | 80/10/21 | 0536:40 | 0537:30 | 180 | 80 | | 2744 | 2 | | |
| 1466 | 297 | 80/10/23 | 0735:00 | 0738:25 | 940 | 4365 | 3.77E+05 | | 10 | 55, 3 | M |
| 1467 | 297 | 80/10/23 | 1032:50 | 1033:55 | 270 | 1174 | 40500 | | 10 | 55, 4 | |
| 1468 | 297 | 80/10/23 | 1042:55 | 1043:45 | 155 | 91 | | | 2 | | |
| 1469 | 297 | 80/10/23 | 1225:25 | 1226:10 | 185 | 235 | 4810 | | 5 | 55, 5 | |
| 5712 | 298 | 80/10/24 | 0029:50 | 0031:04 | 166 | 93 | | | 2 | | I |
| 1470 | 299 | 80/10/25 | 0536:50 | 0539:30 | 405 | 247 | 23490 | | 5 | 55, 6 | M |
| 1471 | 299 | 80/10/25 | 0819:45 | 0820:30 | 205 | 148 | 6150 | | 2 | 55, 7 | SN |
| 1472 | 299 | 80/10/25 | 0955:55 | 0956:20 | 695 | 1325 | 1.95E+05 | | 5 | 55, 8 | M, SN, ES |
| 1473 | 300 | 80/10/26 | 0033:20 | 0033:35 | 30 | 99 | | | 2 | | |
| 1474 | 300 | 80/10/26 | 0101:35 | 0102:00 | 125 | 83 | | | 2 | | |
| 1475 | 300 | 80/10/26 | 0714:15 | 0714:30 | 35 | 70 | | | 2 | | |
| 1476 | 300 | 80/10/26 | 0716:20 | 0717:20 | 110 | 108 | 5720 | | 2 | 55, 9 | |
| 1477 | 300 | 80/10/26 | 1439:45 | 1441:25 | 145 | 85 | | | 2 | | |
| 1478 | 300 | 80/10/26 | 2238:30 | 2240:12 | 280 | 104 | 2800 | | 2 | 55, 10 | |
| 1479 | 301 | 80/10/27 | 1129:25 | 1129:30 | 40 | 83 | | | 2 | | |
| 1480 | 302 | 80/10/28 | 0045:55 | 0046:25 | 90 | 81 | | | 2 | | |
| 1481 | 302 | 80/10/28 | 0223:30 | 0224:00 | 55 | 73 | | | 2 | | |
| 1482 | 302 | 80/10/28 | 1216:05 | 1216:20 | 50 | 97 | | | 2 | | |

ORIGINAL RECORD
OF POOR QUALITY

44

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1483 | 302 | 80/10/28 | 2128:05 | 2129:05 | 90 | 80 | | | 2 | | |
| 4304 | 303 | 80/10/29 | 0148:15 | 0148:30 | 55 | 66 | | | 2 | | I |
| 1484 | 304 | 80/10/30 | 0031:00 | 0031:40 | 105 | 66 | | | 2 | | |
| 1485 | 304 | 80/10/30 | 1525:00 | 1525:50 | 120 | 110 | 720 | | 2 | 55, 11 | |
| 1486 | 304 | 80/10/30 | 1759:20 | 1800:45 | 280 | 136 | 4760 | | 2 | 55, 12 | |
| 1487 | 304 | 80/10/30 | 1916:30 | 1917:05 | 110 | 114 | 1650 | | 2 | 55, 13 | |
| 1488 | 304 | 80/10/30 | 2049:05 | 2052:55 | 765 | 40 | 6885 | | 2 | 55, 14 | |
| 1489 | 305 | 80/10/31 | 0201:55 | 0202:30 | 80 | 103 | 960 | | 2 | 55, 15 | |
| 1490 | 305 | 80/10/31 | 0204:35 | 0204:50 | 40 | 1018 | 22400 | | 5 | 55, 15 | |
| 1491 | 305 | 80/10/31 | 0205:35 | 0206:15 | 100 | 94 | | | 2 | 55, 15 | |
| 5715 | 305 | 80/10/31 | 0319:59 | 0322:07 | 462 | 116 | 5119 | | 2 | 182, 11 | I |
| 1492 | 305 | 80/10/31 | 0936:20 | 0937:10 | 245 | 135 | 3185 | | 2 | 55, 16 | |
| 1493 | 305 | 80/10/31 | 1254:15 | 1254:30 | 35 | 204 | 875 | | 5 | 56, 1 | |
| 1494 | 305 | 80/10/31 | 2051:35 | 2052:00 | 65 | 67 | | | 2 | | |
| 1495 | 305 | 80/10/31 | 2249:45 | 2250:15 | 50 | 73 | | | 2 | | |
| 1496 | 306 | 80/11/01 | 0518:30 | 0519:15 | 180 | 72 | | | 2 | | |
| 1497 | 306 | 80/11/01 | 1419:45 | 1420:00 | 45 | 72 | | | 2 | | |
| 1498 | 306 | 80/11/01 | 1915:05 | 1919:15 | 565 | 1004 | | | 5 | 56, 2 | M |
| 1499 | 307 | 80/11/02 | 0205:40 | 0211:05 | 580 | 241 | | 2772 | 2 | 56, 3 | |
| 1500 | 307 | 80/11/02 | 1418:35 | 1419:00 | 115 | 1627 | 21390 | 2774 | 10 | 56, 6 | M |
| 1501 | 307 | 80/11/02 | 1603:40 | 1604:50 | 135 | 100 | 1485 | 2772 | 2 | 56, 7 | |
| 5716 | 307 | 80/11/02 | 1904:50 | 1905:27 | 76 | 155 | 2257 | | 4 | 182, 12 | I |
| 5717 | 307 | 80/11/02 | 1910:53 | 1911:52 | 102 | 69 | | | 2 | | I |
| 1502 | 307 | 80/11/02 | 2358:15 | 0001:55 | 540 | 133 | 12420 | 2773 | 5 | 56, 8 | |
| 1503 | 308 | 80/11/03 | 0157:10 | 0159:25 | 885 | 469 | | 2776 | 5 | 56, 9 | |
| 1504 | 308 | 80/11/03 | 0331:15 | 0338:10 | 960 | 1002 | 1.14E+05 | 2773 | 10 | 56, 10 | M |
| 1505 | 308 | 80/11/03 | 1548:40 | 1554:35 | 600 | 74 | 4800 | | 2 | 56, 11 | |
| 1506 | 308 | 80/11/03 | 1949:15 | 1950:00 | 145 | 85 | | | 2 | | |
| 1507 | 308 | 80/11/03 | 2117:45 | 2118:10 | 40 | 92 | | | 2 | | |
| 1508 | 308 | 80/11/03 | 2257:25 | 2257:50 | 50 | 62 | | | 2 | | |
| 1509 | 309 | 80/11/04 | 0131:35 | 0132:05 | 60 | 62 | | | 2 | | |
| 1510 | 309 | 80/11/04 | 0148:20 | 0149:50 | 1260 | 475 | 1.34E+05 | | 5 | 56, 12 | |
| 1511 | 309 | 80/11/04 | 1000:45 | 1001:10 | 30 | 90 | | | 2 | | |
| 5718 | 309 | 80/11/04 | 1501:30 | 1501:48 | 63 | 362 | 3035 | | 3 | 182, 13 | I |
| 5719 | 309 | 80/11/04 | 1505:08 | 1507:13 | 247 | 191 | 17432 | | 2 | 182, 14 | EN, I |
| 1512 | 309 | 80/11/04 | 1551:40 | 1551:50 | 145 | 81 | | | 2 | | |
| 1513 | 309 | 80/11/04 | 1602:10 | 1602:25 | 40 | 113 | 560 | | 2 | 56, 13 | |
| 1514 | 309 | 80/11/04 | 1812:50 | 1813:10 | 50 | 98 | | | 2 | | |
| 1515 | 309 | 80/11/04 | 1952:55 | 1954:25 | 195 | 97 | | | 2 | | |
| 1516 | 309 | 80/11/04 | 2050:40 | 2052:30 | 230 | 97 | 2990 | | 2 | 56, 14 | |
| 1517 | 309 | 80/11/04 | 2114:15 | 2114:45 | 50 | 105 | 450 | | 2 | 56, 15 | |
| 1518 | 309 | 80/11/04 | 2123:30 | 2123:50 | 35 | 86 | | | 2 | | |
| 1519 | 310 | 80/11/05 | 0135:10 | 0135:45 | 65 | 130 | 1690 | | 2 | 56, 16 | |
| 1520 | 310 | 80/11/05 | 0139:35 | 0141:00 | 150 | 64 | | | 2 | | |
| 1521 | 310 | 80/11/05 | 0304:30 | 0305:25 | 125 | 94 | | | 2 | | |
| 1522 | 310 | 80/11/05 | 0505:05 | 0506:35 | 145 | 95 | | | 2 | | |
| 1523 | 310 | 80/11/05 | 0635:35 | 0636:00 | 90 | 546 | 5220 | | 5 | 57, 1 | |
| 1524 | 310 | 80/11/05 | 0825:35 | 0832:30 | 1020 | 241 | 68340 | | 2 | 57, 2 | M, EN |
| 1525 | 310 | 80/11/05 | 1131:20 | 1132:25 | 260 | 229 | 7800 | | 2 | 57, 3 | |
| 1526 | 310 | 80/11/05 | 1234:20 | 1234:35 | 25 | 70 | | | 2 | | |
| 1527 | 310 | 80/11/05 | 1236:55 | 1237:10 | 65 | 94 | | | 2 | | |
| 1528 | 310 | 80/11/05 | 1405:55 | 1406:15 | 900 | 1176 | 2.32E+05 | | 2 | 57, 4 | M, ES |
| 5720 | 310 | 80/11/05 | 1544:42 | 1545:34 | 85 | 87 | | | 2 | | I |

ORIGINAL PAGE IS
OF POOR QUALITY

45

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|------------|
| 1529 | 310 | 80/11/05 | 1721:10 | 1722:15 | 110 | 62 | | | 2 | | |
| 1530 | 310 | 80/11/05 | 1934:40 | 1936:20 | 755 | 202 | | | 2 | 57, 5 | |
| 1531 | 310 | 80/11/05 | 2123:05 | 2123:10 | 30 | 69 | | | 2 | | |
| 1532 | 310 | 80/11/05 | 2126:10 | 2126:35 | 60 | 80 | | | 2 | | |
| 1533 | 310 | 80/11/05 | 2225:40 | 2226:30 | 230 | 3151 | 62560 | | 10 | 57, 6 | M |
| 1534 | 310 | 80/11/05 | 2232:10 | 2233:05 | 350 | 12730 | 4.61E+05 | | 10 | 57, 6 | |
| 1535 | 310 | 80/11/05 | 2257:40 | 2258:00 | 55 | 95 | | | 2 | | |
| 1536 | 310 | 80/11/05 | 2301:05 | 2301:20 | 45 | 447 | 2205 | | 5 | 57, 7 | |
| 1537 | 310 | 80/11/05 | 2345:10 | 2347:20 | 160 | 110 | 2080 | | 2 | 57, 9 | |
| 1538 | 310 | 80/11/05 | 2353:00 | 2353:25 | 70 | 85 | | | 2 | | |
| 1539 | 311 | 80/11/06 | 0026:25 | 0027:15 | 230 | 139 | 2300 | | 2 | 57, 10 | |
| 1540 | 311 | 80/11/06 | 0115:35 | 0116:30 | 180 | 70 | | | 2 | | |
| 1541 | 311 | 80/11/06 | 0128:25 | 0147:30 | 2700 | 1072 | 3.00E+05 | | 5 | 57, 11 | M |
| 1542 | 311 | 80/11/06 | 0322:05 | 0322:50 | 105 | 74 | | | 2 | | |
| 1543 | 311 | 80/11/06 | 0324:10 | 0348:00 | 7395 | 155347 | 7.39E+07 | | 15 | 202, 2 | IS, IN, EN |
| 1544 | 311 | 80/11/06 | 0626:20 | 0627:25 | 330 | 172 | 11550 | | 5 | 57, 12 | |
| 1545 | 311 | 80/11/06 | 0647:30 | 0650:55 | 640 | 2613 | 2.37E+05 | | 10 | 57, 13 | M |
| 1546 | 311 | 80/11/06 | 0950:15 | 0950:30 | 140 | 188 | 2100 | | 5 | 57, 14 | |
| 4305 | 311 | 80/11/06 | 1000:35 | 1001:05 | 45 | 71 | | | 2 | | I |
| 1547 | 311 | 80/11/06 | 1139:05 | 1145:05 | 515 | 98 | 4120 | | 2 | 57, 15 | |
| 1548 | 311 | 80/11/06 | 1226:30 | 1234:25 | 490 | 497 | 56350 | | 2 | 57, 16 | M, ES |
| 1549 | 311 | 80/11/06 | 1404:15 | 1416:20 | 750 | 1553 | 1.16E+05 | | 5 | 58, 1 | M, ES |
| 1550 | 311 | 80/11/06 | 1454:25 | 1501:30 | 3840 | 1553 | 2.46E+05 | | 5 | 58, 2 | M, ES, IN |
| 1551 | 311 | 80/11/06 | 1624:50 | 1625:15 | 105 | 123 | 1365 | | 2 | 58, 3 | |
| 1552 | 311 | 80/11/06 | 1713:45 | 1727:22 | 1570 | 1236 | 1.62E+05 | | 5 | 58, 4 | M, ES |
| 1553 | 311 | 80/11/06 | 1758:55 | 1759:00 | 85 | 137 | 1615 | | 2 | 58, 4 | |
| 1554 | 311 | 80/11/06 | 1931:55 | 1941:15 | 975 | 5614 | 8.79E+05 | | 5 | 58, 5 | M, EN |
| 1555 | 311 | 80/11/06 | 2024:40 | 2026:50 | 300 | 227 | 7800 | | 2 | 58, 6 | |
| 1556 | 311 | 80/11/06 | 2037:05 | 2038:50 | 455 | 353 | 25480 | | 2 | 58, 6 | |
| 1557 | 311 | 80/11/06 | 2100:15 | 2101:00 | 115 | 69 | | | 2 | | |
| 1558 | 311 | 80/11/06 | 2104:35 | 2104:45 | 25 | 88 | | | 2 | | |
| 1559 | 311 | 80/11/06 | 2217:00 | 2221:55 | 1240 | 1020 | 2.33E+05 | | 5 | 58, 7 | M |
| 1560 | 311 | 80/11/06 | 2243:20 | 2249:15 | 565 | 101 | 3955 | | 2 | 58, 7 | |
| 1561 | 311 | 80/11/06 | 2343:05 | 2344:10 | 65 | 70 | | | 2 | | |
| 1562 | 312 | 80/11/07 | 0121:10 | 0123:20 | 275 | 116 | 2200 | | 2 | 58, 8 | |
| 1563 | 312 | 80/11/07 | 0134:55 | 0204:55 | 2170 | 86574 | 1.18E+07 | | 15 | 58, 8 | M, EN |
| 4386 | 312 | 80/11/07 | 0135:45 | 0136:20 | 75 | 256 | 1125 | | 2 | 58, 8 | I |
| 4387 | 312 | 80/11/07 | 0137:15 | 0139:05 | 220 | 85 | 1980 | | 2 | 58, 8 | I |
| 4388 | 312 | 80/11/07 | 0141:50 | 0142:30 | 195 | 98 | | | 2 | 58, 8 | I |
| 4389 | 312 | 80/11/07 | 0145:35 | 0146:25 | 160 | 139 | 4160 | | 2 | 58, 8 | I |
| 4390 | 312 | 80/11/07 | 0149:40 | 0150:40 | 180 | 406 | 5940 | | 5 | 58, 8 | I |
| 4391 | 312 | 80/11/07 | 0156:35 | 0157:40 | 155 | 291 | 5735 | | 5 | 58, 8 | I |
| 1564 | 312 | 80/11/07 | 0332:15 | 0333:40 | 215 | 307 | 7955 | | 5 | 58, 9 | |
| 1565 | 312 | 80/11/07 | 0437:35 | 0454:30 | 1745 | 272 | 71545 | | 2 | 58, 10 | |
| 1566 | 312 | 80/11/07 | 0516:20 | 0516:40 | 50 | 99 | | | 2 | 58, 10 | |
| 1567 | 312 | 80/11/07 | 0651:10 | 0654:45 | 280 | 70 | 1400 | | 2 | 58, 11 | |
| 1568 | 312 | 80/11/07 | 0807:55 | 0808:20 | 80 | 226 | 2880 | | 2 | 58, 12 | |
| 1569 | 312 | 80/11/07 | 0812:10 | 0812:25 | 85 | 102 | 595 | | 2 | 58, 12 | |
| 1570 | 312 | 80/11/07 | 0817:35 | 0817:45 | 20 | 106 | 260 | | 2 | 58, 12 | |
| 1571 | 312 | 80/11/07 | 1000:40 | 1001:25 | 70 | 88 | | | 2 | | |
| 1572 | 312 | 80/11/07 | 1007:35 | 1007:55 | 40 | 154 | 880 | | 2 | 58, 13 | M |
| 1573 | 312 | 80/11/07 | 1132:40 | 1134:40 | 500 | 365 | 26000 | | 2 | 58, 14 | |
| 1574 | 312 | 80/11/07 | 1259:55 | 1301:55 | 710 | 953 | 1.61E+05 | | 2 | 59, 1 | SA |

ORIGINAL FROM US
OF POOR QUALITY

46

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1575 | 312 | 80/11/07 | 1315:30 | 1316:35 | 170 | 89 | | | 2 | | |
| 1576 | 312 | 80/11/07 | 1408:50 | 1410:30 | 235 | 178 | 3995 | | 2 | 59, 2 | M, ES |
| 1577 | 312 | 80/11/07 | 1439:20 | 1440:00 | 525 | 1267 | 1.03E+05 | | 5 | 59, 3 | SA |
| 1578 | 312 | 80/11/07 | 1454:25 | 1455:05 | 140 | 89 | | | 2 | | |
| 1579 | 312 | 80/11/07 | 1536:05 | 1536:50 | 255 | 654 | 12750 | | 5 | 59, 4 | |
| 1580 | 312 | 80/11/07 | 1713:00 | 1713:15 | 40 | 113 | 720 | | 2 | 59, 5 | |
| 1581 | 312 | 80/11/07 | 1726:10 | 1733:20 | 2280 | 6859 | 1.70E+06 | | 10 | 59, 6 | M, DG |
| 1582 | 312 | 80/11/07 | 1849:30 | 1850:10 | 80 | 71 | | | 2 | | |
| 1583 | 312 | 80/11/07 | 1849:40 | 1850:05 | 65 | 62 | | | 2 | | |
| 1584 | 312 | 80/11/07 | 2032:45 | 2033:00 | 60 | 80 | | | 2 | | |
| 1585 | 312 | 80/11/07 | 2223:50 | 2224:15 | 50 | 76 | | | 2 | | |
| 1586 | 312 | 80/11/07 | 2226:00 | 2227:25 | 490 | 78 | 4900 | | 2 | 59, 7 | |
| 1587 | 313 | 80/11/08 | 0118:15 | 0119:25 | 300 | 489 | 31800 | | 5 | 59, 8 | M |
| 1588 | 313 | 80/11/08 | 0157:45 | 0158:40 | 180 | 157 | 7200 | | 5 | 59, 10 | |
| 1589 | 313 | 80/11/08 | 0457:30 | 0503:00 | 685 | 940 | 50005 | | 2 | 59, 11 | |
| 1590 | 313 | 80/11/08 | 1121:20 | 1121:40 | 40 | 302 | 2480 | | 5 | 59, 12 | |
| 1591 | 313 | 80/11/08 | 1123:30 | 1125:10 | 140 | 1283 | 10080 | | 5 | 59, 12 | M |
| 1592 | 313 | 80/11/08 | 1438:40 | 1440:20 | 180 | 103 | 540 | | 2 | 59, 14 | |
| 1593 | 313 | 80/11/08 | 1447:55 | 1452:15 | 360 | 2460 | 78840 | | 10 | 59, 15 | M, ES |
| 1594 | 313 | 80/11/08 | 1536:30 | 1537:00 | 75 | 73 | | | 2 | | |
| 1595 | 313 | 80/11/08 | 1540:45 | 1541:00 | 55 | 132 | 495 | | 2 | 59, 16 | |
| 1596 | 313 | 80/11/08 | 1617:25 | 1619:25 | 245 | 125 | 3430 | | 2 | 60, 1 | |
| 1597 | 313 | 80/11/08 | 1727:15 | 1728:45 | 205 | 305 | 7790 | | 5 | 60, 2 | |
| 1598 | 313 | 80/11/08 | 2051:00 | 2052:30 | 310 | 124 | 4340 | | 2 | 60, 3 | |
| 1599 | 313 | 80/11/08 | 2110:15 | 2113:00 | 300 | 194 | 6000 | | 2 | 60, 4 | M |
| 1600 | 313 | 80/11/08 | 2116:15 | 2116:45 | 55 | 379 | 935 | | 5 | 60, 4 | M, EN |
| 1601 | 313 | 80/11/08 | 2330:20 | 2330:25 | 185 | 97 | | | 2 | | |
| 1602 | 314 | 80/11/09 | 0135:35 | 0136:35 | 115 | 100 | | | 2 | | |
| 1603 | 314 | 80/11/09 | 0430:30 | 0430:30 | 75 | 95 | | | 2 | | SA |
| 1604 | 314 | 80/11/09 | 0459:00 | 0459:15 | 60 | 100 | | | 2 | | |
| 1605 | 314 | 80/11/09 | 0632:35 | 0633:00 | 50 | 67 | | | 2 | | |
| 1606 | 314 | 80/11/09 | 0635:25 | 0635:50 | 55 | 65 | | | 2 | | |
| 1607 | 314 | 80/11/09 | 0817:45 | 0818:20 | 50 | 80 | | | 2 | | |
| 1608 | 314 | 80/11/09 | 0819:40 | 0820:10 | 110 | 99 | | | 2 | | |
| 1609 | 314 | 80/11/09 | 1132:10 | 1134:05 | 190 | 128 | 3040 | | 5 | 60, 5 | |
| 1610 | 314 | 80/11/09 | 1403:30 | 1403:55 | 60 | 80 | | | 2 | | EN |
| 1611 | 314 | 80/11/09 | 1622:20 | 1622:30 | 30 | 78 | | | 2 | | |
| 1612 | 314 | 80/11/09 | 1624:50 | 1625:00 | 30 | 90 | | | 2 | | |
| 1613 | 314 | 80/11/09 | 1702:50 | 1703:10 | 55 | 68 | | | 2 | | |
| 1614 | 314 | 80/11/09 | 1713:45 | 1715:00 | 140 | 146 | 4060 | | 2 | 60, 6 | |
| 1615 | 314 | 80/11/09 | 1758:25 | 1758:40 | 35 | 672 | 2555 | | 5 | 60, 7 | |
| 1616 | 314 | 80/11/09 | 1759:45 | 1759:55 | 25 | 456 | 550 | | 5 | 60, 7 | |
| 1617 | 314 | 80/11/09 | 1911:05 | 1912:05 | 120 | 222 | 6840 | | 2 | 60, 8 | |
| 1618 | 314 | 80/11/09 | 1915:05 | 1921:10 | 560 | 111 | 6720 | | 2 | 60, 9 | |
| 1619 | 314 | 80/11/09 | 1928:00 | 1928:55 | 95 | 130 | 1045 | | 2 | 60, 9 | |
| 1620 | 314 | 80/11/09 | 2032:25 | 2033:25 | 150 | 63 | | | 2 | | |
| 1621 | 314 | 80/11/09 | 2052:50 | 2053:25 | 65 | 63 | | | 2 | | |
| 1622 | 314 | 80/11/09 | 2054:45 | 2055:00 | 50 | 87 | | | 2 | | |
| 1623 | 314 | 80/11/09 | 2216:20 | 2217:00 | 145 | 89 | | | 2 | | |
| 1624 | 315 | 80/11/10 | 0258:45 | 0259:15 | 280 | 1359 | 41440 | | 5 | 60, 10 | M |
| 1625 | 315 | 80/11/10 | 0426:35 | 0426:35 | 100 | 87 | | | 2 | | SA |
| 1626 | 315 | 80/11/10 | 0438:20 | 0440:00 | 190 | 73 | | | 2 | | |
| 1627 | 315 | 80/11/10 | 0447:05 | 0447:35 | 80 | 61 | | | 2 | | |

ORIGINAL PAGE 11
OF POOR QUALITY

47

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1628 | 315 | 80/11/10 | 0804:10 | 0808:10 | 460 | 341 | 47840 | | 5 | 60, 12 | |
| 1629 | 315 | 80/11/10 | 0929:55 | 0935:00 | 435 | 97 | 20445 | | 2 | 60, 13 | |
| 1630 | 315 | 80/11/10 | 1300:35 | 1301:25 | 115 | 92 | | | 2 | | |
| 1631 | 315 | 80/11/10 | 1606:55 | 1611:50 | 660 | 783 | 62040 | | 5 | 60, 14 | M |
| 1632 | 315 | 80/11/10 | 1835:20 | 1835:30 | 30 | 129 | 390 | | 2 | 60, 15 | |
| 1633 | 315 | 80/11/10 | 2150:10 | 2150:45 | 65 | 226 | 1820 | | 5 | 60, 16 | |
| 1634 | 315 | 80/11/10 | 2151:20 | 2157:50 | 570 | 132 | 13110 | | 2 | 60, 16 | |
| 1635 | 315 | 80/11/10 | 2351:55 | 2352:25 | 60 | 102 | 1080 | | 2 | 61, 1 | |
| 1636 | 316 | 80/11/11 | 0625:30 | 0627:15 | 320 | 526 | 54080 | | 5 | 61, 2 | |
| 1637 | 316 | 80/11/11 | 0815:10 | 0815:40 | 95 | 326 | 3800 | | 5 | 61, 3 | M |
| 1638 | 316 | 80/11/11 | 0922:30 | 0924:15 | 245 | 158 | | | 2 | 61, 4 | SA |
| 1639 | 316 | 80/11/11 | 0941:00 | 0941:35 | 50 | 92 | | | 2 | | |
| 1640 | 316 | 80/11/11 | 1212:30 | 1213:10 | 90 | 70 | | | 2 | | |
| 1641 | 316 | 80/11/11 | 1439:20 | 1440:50 | 185 | 143 | 6845 | | 2 | 61, 5 | M, EN |
| 1642 | 316 | 80/11/11 | 1518:50 | 1519:40 | 300 | 1791 | 72300 | | 5 | 61, 6 | M |
| 1643 | 316 | 80/11/11 | 1552:10 | 1552:10 | 440 | 202 | | | 2 | 61, 8 | SA |
| 1644 | 316 | 80/11/11 | 1711:05 | 1712:40 | 250 | 88 | 52500 | | 2 | 61, 9 | |
| 1645 | 316 | 80/11/11 | 1722:55 | 1724:20 | 310 | 3694 | 1.07E+05 | | 10 | 61, 10 | M |
| 1646 | 316 | 80/11/11 | 1737:30 | 1742:30 | 950 | 4382 | 9.48E+05 | | 15 | 61, 10 | EN |
| 1647 | 316 | 80/11/11 | 1908:10 | 1909:00 | 225 | 125 | 8550 | | 2 | 61, 11 | |
| 1648 | 316 | 80/11/11 | 2016:00 | 2016:05 | 10 | 84 | | | 2 | | |
| 1649 | 316 | 80/11/11 | 2041:30 | 2041:50 | 40 | 112 | 280 | | 5 | 61, 12 | |
| 1650 | 316 | 80/11/11 | 2042:25 | 2045:25 | 420 | 429 | 24360 | | 2 | 61, 12 | |
| 1651 | 316 | 80/11/11 | 2053:00 | 2054:35 | 820 | 894 | 2.66E+05 | | 5 | 61, 12 | M, EN |
| 1652 | 316 | 80/11/11 | 2339:35 | 2341:00 | 545 | 388 | 19075 | | 5 | 61, 13 | |
| 1653 | 316 | 80/11/11 | 2352:20 | 2353:25 | 115 | 82 | | | 2 | | |
| 1654 | 317 | 80/11/12 | 0002:50 | 0003:40 | 155 | 200 | 4030 | | 2 | 61, 13 | |
| 1655 | 317 | 80/11/12 | 0236:00 | 0236:25 | 170 | 120 | 3400 | | 2 | 61, 14 | SA |
| 1656 | 317 | 80/11/12 | 0242:55 | 0249:30 | 965 | 968 | 1.05E+05 | | 5 | 61, 14 | M |
| 1657 | 317 | 80/11/12 | 0300:10 | 0300:35 | 230 | 161 | 460 | | 5 | 61, 14 | |
| 1658 | 317 | 80/11/12 | 0311:00 | 0312:25 | 160 | 103 | 2720 | | 2 | 61, 14 | |
| 1659 | 317 | 80/11/12 | 0317:45 | 0318:05 | 85 | 86 | | | 2 | | |
| 1660 | 317 | 80/11/12 | 0424:55 | 0425:05 | 45 | 79 | | | 2 | | |
| 1661 | 317 | 80/11/12 | 0445:50 | 0452:00 | 1045 | 50219 | 4.17E+06 | | 15 | 61, 15 | M, EN |
| 4306 | 317 | 80/11/12 | 0801:35 | 0802:10 | 65 | 66 | | | 2 | | I |
| 1662 | 317 | 80/11/12 | 0918:35 | 0919:45 | 165 | 96 | | | 2 | | |
| 1663 | 317 | 80/11/12 | 0943:40 | 0945:35 | 150 | 83 | | | 2 | | |
| 1664 | 317 | 80/11/12 | 1102:20 | 1102:55 | 195 | 198 | | | 2 | 61, 16 | |
| 1665 | 317 | 80/11/12 | 1659:45 | 1702:15 | 390 | 653 | 64740 | | 5 | 62, 1 | |
| 4307 | 317 | 80/11/12 | 1732:25 | 1735:35 | 372 | 66 | 2421 | | 2 | 144, 9 | I |
| 1666 | 317 | 80/11/12 | 2003:00 | 2003:40 | 135 | 68 | | | 2 | | |
| 1667 | 317 | 80/11/12 | 2138:55 | 2139:55 | 125 | 80 | | | 2 | | |
| 1668 | 317 | 80/11/12 | 2151:50 | 2152:45 | 215 | 890 | 34615 | | 5 | 62, 2 | M |
| 1669 | 317 | 80/11/12 | 2230:35 | 2231:10 | 50 | 99 | | | 2 | | |
| 1670 | 317 | 80/11/12 | 2334:10 | 2344:25 | 755 | 155 | 9815 | | 2 | 62, 4 | |
| 1671 | 317 | 80/11/12 | 2351:20 | 2355:55 | 795 | 102 | 23055 | | 2 | 62, 4 | |
| 1672 | 318 | 80/11/13 | 0007:10 | 0008:20 | 305 | 95 | 3660 | | 2 | 62, 4 | |
| 1673 | 318 | 80/11/13 | 0049:15 | 0057:00 | 1750 | 6915 | 9.45E+05 | | 10 | 62, 5 | |
| 1674 | 318 | 80/11/13 | 0257:10 | 0257:25 | 50 | 86 | | | 2 | | |
| 1675 | 318 | 80/11/13 | 0301:30 | 0314:30 | 1360 | 234 | 57120 | | 2 | 62, 6 | |
| 1676 | 318 | 80/11/13 | 0937:35 | 0946:40 | 545 | 1593 | 2.72E+05 | | 10 | 62, 7 | M, EN |
| 1677 | 318 | 80/11/13 | 1912:00 | 1916:40 | 620 | 483 | 1.34E+05 | | 2 | 62, 8 | EN |
| 1678 | 318 | 80/11/13 | 2031:05 | 2031:35 | 120 | 88 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 1679 | 319 | 80/11/14 | 0102:35 | 0104:50 | 195 | 76 | | | 2 | | |
| 1680 | 319 | 80/11/14 | 0108:05 | 0108:50 | 130 | 60 | | | 2 | | |
| 1681 | 319 | 80/11/14 | 0110:35 | 0117:30 | 515 | 93 | 2060 | | 2 | 62, 9 | |
| 1682 | 319 | 80/11/14 | 0130:25 | 0131:25 | 140 | 71 | | | 2 | | |
| 1683 | 319 | 80/11/14 | 0248:30 | 0249:20 | 195 | 61 | | | 2 | | |
| 1684 | 319 | 80/11/14 | 0256:50 | 0258:40 | 180 | 209 | 6840 | | 2 | 62, 10 | |
| 1685 | 319 | 80/11/14 | 0454:40 | 0455:40 | 145 | 794 | 27985 | | 5 | 62, 11 | M |
| 1686 | 319 | 80/11/14 | 0731:00 | 0748:20 | 7945 | 396 | 8.10E+05 | | 5 | 202, 1 | M, SN, EN |
| 1687 | 319 | 80/11/14 | 1252:30 | 1253:30 | 195 | 109 | 2730 | | 2 | 62, 12 | M |
| 1688 | 319 | 80/11/14 | 1428:10 | 1429:40 | 40 | 78 | | | 2 | | |
| 1689 | 319 | 80/11/14 | 1516:50 | 1517:30 | 80 | 90 | | | 2 | | |
| 1690 | 319 | 80/11/14 | 1539:35 | 1539:50 | 775 | 1499 | 1.81E+05 | | 5 | 62, 13 | M |
| 1691 | 319 | 80/11/14 | 1557:30 | 1558:20 | 180 | 99 | | | 2 | | |
| 1692 | 319 | 80/11/14 | 1601:50 | 1602:20 | 100 | 120 | 8000 | | 2 | 62, 13 | |
| 1693 | 319 | 80/11/14 | 1827:00 | 1830:25 | 1140 | 716 | 1.35E+05 | | 5 | 62, 14 | |
| 1694 | 319 | 80/11/14 | 1847:35 | 1849:40 | 400 | 817 | 38400 | | 5 | 62, 14 | |
| 1695 | 319 | 80/11/14 | 2211:45 | 2216:05 | 485 | 131 | 15035 | | 2 | 62, 15 | |
| 1696 | 319 | 80/11/14 | 2350:30 | 2359:10 | 930 | 3520 | 1.17E+06 | | 5 | 62, 16 | M |
| 1697 | 320 | 80/11/15 | 0100:55 | 0101:10 | 45 | 77 | | | 2 | | |
| 1698 | 320 | 80/11/15 | 0559:30 | 0559:55 | 60 | 150 | 1140 | | 2 | 63, 1 | |
| 1699 | 320 | 80/11/15 | 0755:10 | 0755:55 | 70 | 143 | 1120 | | 2 | 63, 2 | |
| 1700 | 320 | 80/11/15 | 1335:50 | 1337:10 | 330 | 134 | 7920 | | 2 | 63, 3 | |
| 1701 | 320 | 80/11/15 | 1412:45 | 1414:40 | 760 | 109 | 9120 | | 2 | 63, 4 | |
| 1702 | 320 | 80/11/15 | 1516:15 | 1543:30 | 2860 | 12939 | 5.65E+06 | | 10 | 63, 5 | M |
| 1703 | 320 | 80/11/15 | 1715:45 | 1716:20 | 100 | 123 | 1300 | | 2 | 63, 6 | |
| 1704 | 320 | 80/11/15 | 1950:10 | 1959:45 | 1475 | 1593 | 3.05E+05 | | 5 | 63, 7 | M |
| 1705 | 320 | 80/11/15 | 2133:15 | 2133:45 | 65 | 120 | 1495 | | 5 | 63, 9 | |
| 1706 | 320 | 80/11/15 | 2145:40 | 2146:25 | 220 | 1219 | 37400 | | 5 | 63, 10 | |
| 1707 | 320 | 80/11/15 | 2322:10 | 2323:40 | 105 | 69 | | | 2 | | |
| 1708 | 321 | 80/11/16 | 0301:05 | 0301:55 | 155 | 1115 | 41540 | | 5 | 63, 11 | M |
| 1709 | 321 | 80/11/16 | 0311:00 | 0311:45 | 110 | 182 | 3080 | | 5 | 63, 11 | |
| 1710 | 321 | 80/11/16 | 0901:15 | 0904:25 | 720 | 3909 | 3.90E+05 | | 10 | 63, 12 | M |
| 1711 | 321 | 80/11/16 | 1048:20 | 1048:45 | 80 | 135 | 2320 | | 2 | 63, 14 | |
| 1712 | 321 | 80/11/16 | 1330:45 | 1331:00 | 70 | 78 | | | 2 | | |
| 1713 | 321 | 80/11/16 | 1819:00 | 1819:10 | 80 | 132 | 1680 | | 2 | 63, 15 | |
| 1714 | 321 | 80/11/16 | 1907:45 | 1908:20 | 70 | 75 | | | 2 | | |
| 1715 | 321 | 80/11/16 | 1953:40 | 1955:20 | 120 | 70 | | | 2 | 63, 16 | |
| 1716 | 321 | 80/11/16 | 1955:50 | 1957:35 | 145 | 69 | | | 2 | 63, 16 | |
| 1717 | 321 | 80/11/16 | 1959:00 | 1959:20 | 35 | 101 | 525 | | 2 | 63, 16 | |
| 1718 | 321 | 80/11/16 | 2000:35 | 2001:15 | 170 | 622 | 12920 | | 5 | 63, 16 | |
| 1719 | 321 | 80/11/16 | 2005:45 | 2006:55 | 230 | 169 | 6900 | | 2 | 63, 16 | |
| 1720 | 321 | 80/11/16 | 2016:35 | 2022:20 | 960 | 1572 | 2.28E+05 | | 10 | 63, 16 | |
| 1721 | 321 | 80/11/16 | 2147:35 | 2148:40 | 175 | 66 | | | 2 | | |
| 1722 | 322 | 80/11/17 | 0542:10 | 0546:25 | 500 | 160 | 15332 | | 2 | 64, 1 | |
| 1723 | 322 | 80/11/17 | 0917:35 | 0921:35 | 380 | 131 | 7600 | | 2 | 64, 2 | |
| 1724 | 322 | 80/11/17 | 1333:50 | 1337:50 | 1170 | 3110 | 7.21E+05 | | 5 | 64, 3 | M |
| 1725 | 322 | 80/11/17 | 1544:10 | 1546:25 | 200 | 207 | 6720 | | 5 | 64, 4 | |
| 1726 | 322 | 80/11/17 | 1548:15 | 1548:45 | 66 | 110 | 799 | | 2 | 64, 4 | |
| 1727 | 322 | 80/11/17 | 2023:25 | 2024:30 | 119 | 203 | 4882 | | 2 | 64, 5 | |
| 1728 | 323 | 80/11/18 | 0418:45 | 0420:10 | 115 | 92 | | | 2 | | |
| 1729 | 323 | 80/11/18 | 0544:15 | 0545:50 | 165 | 1002 | 26065 | | 5 | 64, 6 | M |
| 1730 | 323 | 80/11/18 | 0614:00 | 0614:40 | 110 | 72 | | | 2 | | |
| 1731 | 323 | 80/11/18 | 0716:15 | 0718:20 | 535 | 1445 | 55943 | | 10 | 64, 8 | M |

ORIGINAL
OF POOR QUALITY

49

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 5721 | 323 | 80/11/18 | 0904:24 | 0905:38 | 133 | 79 | | | 2 | | I |
| 1732 | 323 | 80/11/18 | 1003:15 | 1003:50 | 125 | 114 | | | 2 | | SN,ES |
| 1733 | 323 | 80/11/18 | 1037:50 | 1039:00 | 135 | 99 | | | 2 | | |
| 1734 | 323 | 80/11/18 | 1140:55 | 1141:15 | 180 | 289 | 9100 | | 5 | 64, 10 | M |
| 1735 | 323 | 80/11/18 | 1145:20 | 1145:35 | 55 | 76 | | | 2 | | |
| 1736 | 323 | 80/11/18 | 1416:55 | 1417:25 | 56 | 140 | 585 | | 2 | 64, 11 | M |
| 1737 | 323 | 80/11/18 | 1450:20 | 1452:05 | 590 | 6890 | 3.42E+05 | | 10 | 64, 12 | M |
| 1738 | 323 | 80/11/18 | 1534:30 | 1535:05 | 100 | 71 | | | 2 | | |
| 1739 | 323 | 80/11/18 | 1652:45 | 1653:05 | 90 | 95 | | | 2 | | |
| 1740 | 323 | 80/11/18 | 2213:35 | 2214:25 | 90 | 71 | | | 2 | | |
| 1741 | 324 | 80/11/19 | 0029:35 | 0030:15 | 102 | 292 | 5215 | | 5 | 64, 14 | |
| 1742 | 324 | 80/11/19 | 0241:40 | 0242:00 | 45 | 83 | | | 2 | | |
| 1743 | 324 | 80/11/19 | 0434:25 | 0439:05 | 300 | 321 | 33035 | | 2 | 64, 15 | EN |
| 1744 | 324 | 80/11/19 | 0533:00 | 0542:05 | 1008 | 1480 | 2.80E+05 | | 5 | 64, 16 | M |
| 1745 | 324 | 80/11/19 | 0851:40 | 0852:00 | 50 | 95 | | | 2 | | |
| 1746 | 324 | 80/11/19 | 1236:15 | 1237:15 | 127 | 440 | 14894 | | 5 | 65, 1 | M |
| 1747 | 324 | 80/11/19 | 1335:55 | 1336:10 | 26 | 150 | 927 | | 5 | 65, 2 | |
| 1748 | 324 | 80/11/19 | 1336:30 | 1336:50 | 44 | 147 | 1020 | | 5 | 65, 2 | |
| 1749 | 324 | 80/11/19 | 1447:50 | 1448:05 | 40 | 129 | 927 | | 2 | 65, 3 | |
| 1750 | 324 | 80/11/19 | 1706:05 | 1706:15 | 34 | 121 | 431 | | 15 | 65, 4 | |
| 1751 | 324 | 80/11/19 | 2122:15 | 2122:50 | 59 | 111 | 887 | | 2 | 65, 5 | |
| 1752 | 324 | 80/11/19 | 2132:15 | 2143:35 | 1159 | 78 | 11934 | | 2 | 65, 6 | |
| 1753 | 324 | 80/11/19 | 2202:40 | 2203:00 | 47 | 107 | 682 | | 2 | 65, 7 | |
| 1754 | 324 | 80/11/19 | 2204:00 | 2204:35 | 195 | 78 | | | 2 | 65, 7 | |
| 1755 | 325 | 80/11/20 | 0528:35 | 0529:05 | 61 | 145 | 1751 | | 2 | 65, 8 | |
| 1756 | 326 | 80/11/21 | 0743:05 | 0743:30 | 134 | 2676 | 52056 | | 5 | 65, 9 | M |
| 1757 | 327 | 80/11/22 | 0529:35 | 0532:55 | 341 | 87 | 2756 | | 2 | 65, 10 | |
| 1758 | 327 | 80/11/22 | 0541:45 | 0543:55 | 528 | 297 | 36494 | | 5 | 65, 10 | |
| 5730 | 327 | 80/11/22 | 1528:50 | 1529:01 | 43 | 62 | | | 2 | | I |
| 1759 | 328 | 80/11/23 | 0209:35 | 0209:45 | 20 | 69 | | | 2 | | |
| 1760 | 328 | 80/11/23 | 1839:50 | 1844:40 | 623 | 183 | 27754 | | 2 | 65, 11 | M,EN |
| 1761 | 328 | 80/11/23 | 2117:25 | 2117:40 | 72 | 137 | 1422 | | 2 | 65, 12 | |
| 1762 | 329 | 80/11/24 | 0228:35 | 0229:10 | 10 | 80 | 84 | | 2 | | |
| 1763 | 329 | 80/11/24 | 0840:15 | 0840:35 | 45 | 71 | | | 2 | | |
| 1764 | 329 | 80/11/24 | 0843:00 | 0843:30 | 93 | 110 | 1288 | | 2 | 65, 13 | |
| 1765 | 329 | 80/11/24 | 1345:05 | 1348:20 | 611 | 203 | 21457 | | 2 | 65, 14 | |
| 1766 | 329 | 80/11/24 | 1433:35 | 1434:00 | 195 | 275 | 7559 | | 5 | 65, 15 | M |
| 1767 | 329 | 80/11/24 | 1701:00 | 1702:05 | 168 | 123 | 3177 | | 2 | 66, 1 | |
| 1768 | 329 | 80/11/24 | 1928:10 | 1931:10 | 1091 | 254 | 37758 | | 10 | 66, 2 | |
| 1769 | 329 | 80/11/24 | 2251:55 | 2252:10 | 110 | 75 | | | 10 | | |
| 1770 | 330 | 80/11/25 | 0228:15 | 0230:00 | 165 | 95 | | | 2 | | |
| 1771 | 330 | 80/11/25 | 0649:40 | 0650:10 | 89 | 108 | 995 | | 2 | 66, 3 | |
| 1772 | 330 | 80/11/25 | 0654:50 | 0656:20 | 158 | 205 | 6086 | | 5 | 66, 4 | |
| 1773 | 330 | 80/11/25 | 0901:15 | 0902:25 | 149 | 113 | 1650 | | 2 | 66, 5 | |
| 1774 | 331 | 80/11/26 | 0813:05 | 0813:30 | 45 | 79 | | | 2 | | |
| 1775 | 331 | 80/11/26 | 1036:15 | 1036:25 | 20 | 81 | | | 2 | | |
| 1776 | 331 | 80/11/26 | 1604:15 | 1604:35 | 125 | 80 | | | 2 | | |
| 5731 | 332 | 80/11/27 | 0232:52 | 0233:10 | 30 | 74 | | | 2 | | I |
| 1777 | 332 | 80/11/27 | 0951:30 | 0952:15 | 75 | 72 | | | 2 | | |
| 1778 | 332 | 80/11/27 | 1136:20 | 1136:40 | 54 | 143 | 853 | | 2 | 66, 6 | |
| 1779 | 333 | 80/11/28 | 0147:30 | 0147:50 | 110 | 39 | | | 2 | | |
| 1780 | 333 | 80/11/28 | 0937:40 | 0949:00 | 3473 | 544 | 1.97E+05 | | 5 | 66, 7 | EN |
| 1781 | 333 | 80/11/28 | 1230:00 | 1230:55 | 115 | 71 | | | 2 | | |

ORIGINAL PAGE
OF POOR QUALITY

50

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1782 | 333 | 80/11/28 | 1429:50 | 1436:20 | 1311 | 405 | 1.18E+05 | | 10 | 66, 8 | |
| 1783 | 334 | 80/11/29 | 1440:20 | 1440:55 | 71 | 139 | 1439 | | 5 | 66, 9 | |
| 1784 | 335 | 80/11/30 | 0630:30 | 0631:00 | 85 | 72 | | | 2 | | |
| 1785 | 335 | 80/11/30 | 1447:00 | 1447:35 | 92 | 112 | 891 | | 2 | 66, 10 | |
| 1786 | 335 | 80/11/30 | 1512:05 | 1513:00 | 150 | 180 | 10687 | | 5 | 66, 11 | EN |
| 1787 | 336 | 80/12/01 | 0009:25 | 0011:35 | 165 | 108 | 2711 | | 2 | 66, 12 | |
| 1788 | 336 | 80/12/01 | 0625:05 | 0626:00 | 190 | 84 | | | 2 | | |
| 1789 | 336 | 80/12/01 | 1132:35 | 1133:50 | 215 | 77 | 1448 | | 2 | 66, 13 | |
| 1790 | 336 | 80/12/01 | 1329:30 | 1330:15 | 155 | 76 | | | 2 | | |
| 1791 | 336 | 80/12/01 | 1929:30 | 1930:50 | 165 | 1313 | 20077 | | 5 | 66, 14 | M |
| 1792 | 337 | 80/12/02 | 0619:15 | 0619:50 | 128 | 139 | 4566 | | 2 | 66, 15 | |
| 1793 | 337 | 80/12/02 | 0624:45 | 0627:10 | 310 | 184 | 10269 | | 2 | 66, 15 | |
| 1794 | 337 | 80/12/02 | 0745:40 | 0746:10 | 40 | 316 | 1862 | | 5 | 66, 16 | |
| 1795 | 337 | 80/12/02 | 0748:40 | 0749:05 | 35 | 594 | 5067 | | 10 | 66, 16 | |
| 1796 | 337 | 80/12/02 | 1118:55 | 1123:45 | 1362 | 6489 | 1.23E+06 | | 6 | 202, 2 | M |
| 1797 | 337 | 80/12/02 | 1236:55 | 1243:10 | 938 | 814 | 2.02E+05 | | 5 | 67, 1 | |
| 1798 | 337 | 80/12/02 | 1727:40 | 1728:15 | 80 | 99 | | | 2 | | |
| 1799 | 337 | 80/12/02 | 1920:30 | 1921:40 | 255 | 160 | 5481 | | 2 | 67, 2 | |
| 1800 | 337 | 80/12/02 | 2354:45 | 2358:00 | 338 | 124 | 6382 | | 2 | 67, 3 | |
| 1801 | 338 | 80/12/03 | 0022:55 | 0023:35 | 93 | 103 | 1080 | | 2 | 67, 4 | |
| 1802 | 338 | 80/12/03 | 1058:05 | 1058:15 | 60 | 93 | | | 2 | | |
| 1803 | 339 | 80/12/04 | 0610:45 | 0611:40 | 145 | 99 | | | 2 | | |
| 1804 | 339 | 80/12/04 | 0614:35 | 0615:10 | 65 | 74 | | | 2 | | |
| 1805 | 339 | 80/12/04 | 1119:10 | 1119:20 | 70 | 127 | 775 | | 2 | 67, 5 | |
| 1806 | 339 | 80/12/04 | 1228:40 | 1229:25 | 105 | 85 | | | 2 | | |
| 1807 | 340 | 80/12/05 | 0443:45 | 0444:15 | 129 | 575 | 14852 | | 5 | 67, 6 | |
| 1808 | 340 | 80/12/05 | 1106:00 | 1106:25 | 60 | 78 | | | 2 | | |
| 1810 | 340 | 80/12/05 | 1131:50 | 1132:10 | 98 | 135 | 1368 | | 2 | | |
| 1809 | 340 | 80/12/05 | 1226:35 | 1126:50 | 113 | 342 | 4673 | | 5 | 67, 7 | |
| 5753 | 341 | 80/12/06 | 1134:26 | 1135:03 | 61 | 89 | | | 2 | | I |
| 1811 | 341 | 80/12/06 | 1241:45 | 1242:20 | 75 | 72 | | | 2 | | |
| 1812 | 341 | 80/12/06 | 1310:55 | 1311:25 | 65 | 78 | | | 2 | | |
| 1813 | 341 | 80/12/06 | 1445:25 | 1446:50 | 177 | 133 | 4203 | | 5 | 67, 8 | M |
| 1814 | 341 | 80/12/06 | 2150:15 | 2151:10 | 123 | 105 | 1027 | | 2 | 67, 9 | |
| 1815 | 341 | 80/12/06 | 2158:25 | 2159:00 | 58 | 130 | 1030 | | 2 | 67, 10 | |
| 1816 | 341 | 80/12/06 | 2216:30 | 2217:00 | 85 | 80 | | | 2 | | |
| 1817 | 341 | 80/12/06 | 2338:40 | 2338:45 | 25 | 97 | | | 2 | | |
| 1818 | 342 | 80/12/07 | 0149:55 | 0150:25 | 100 | 85 | | | 2 | | |
| 1819 | 343 | 80/12/08 | 0721:30 | 0722:10 | 100 | 73 | | | 2 | | |
| 1820 | 344 | 80/12/09 | 0124:50 | 0128:10 | 332 | 78 | 1422 | | 2 | 67, 11 | |
| 1821 | 344 | 80/12/09 | 2142:05 | 2142:35 | 45 | 91 | | | 2 | | |
| 1822 | 345 | 80/12/10 | 0311:05 | 0312:35 | 120 | 137 | 2904 | | 2 | 67, 12 | |
| 1823 | 345 | 80/12/10 | 0914:10 | 0919:25 | 619 | 95 | 7452 | | 2 | 67, 13 | |
| 1824 | 345 | 80/12/10 | 0940:15 | 0941:10 | 185 | 81 | | | 2 | | |
| 1825 | 345 | 80/12/10 | 2006:10 | 2006:50 | 82 | 115 | 1374 | | 2 | 67, 14 | |
| 1826 | 345 | 80/12/10 | 2144:05 | 2146:20 | 208 | 102 | 2096 | | 2 | 67, 15 | |
| 1827 | 345 | 80/12/10 | 2148:30 | 2150:15 | 142 | 104 | 1469 | | 2 | 67, 15 | |
| 1828 | 346 | 80/12/11 | 0710:30 | 0711:25 | 122 | 111 | 2221 | | 2 | 67, 16 | |
| 1829 | 346 | 80/12/11 | 0718:30 | 0719:05 | 71 | 107 | 964 | | 2 | 67, 16 | |
| 1830 | 346 | 80/12/11 | 0722:20 | 0722:40 | 35 | 77 | | | 2 | | |
| 1831 | 346 | 80/12/11 | 1247:50 | 1248:50 | 125 | 72 | | | 2 | | |
| 1832 | 346 | 80/12/11 | 1507:35 | 1508:05 | 65 | 84 | | | 2 | | |
| 1833 | 347 | 80/12/12 | 1955:30 | 1957:15 | 140 | 99 | | | 2 | | |

ORIGINAL SOURCE
OF DATA

51

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 1834 | 347 | 80/12/12 | 2121:50 | 2123:50 | 180 | 51 | | | 2 | | |
| 1835 | 348 | 80/12/13 | 0305:15 | 0306:20 | 195 | 75 | | | 2 | | |
| 1836 | 348 | 80/12/13 | 0543:30 | 0544:05 | 80 | 86 | | | 2 | | |
| 1837 | 349 | 80/12/14 | 1053:00 | 1053:45 | 65 | 80 | | | 2 | | |
| 1838 | 349 | 80/12/14 | 1408:05 | 1408:25 | 45 | 83 | | | 2 | | |
| 1839 | 349 | 80/12/14 | 1450:10 | 1450:40 | 70 | 73 | | | 2 | | |
| 1840 | 349 | 80/12/14 | 1452:35 | 1454:55 | 204 | 118 | 3027 | | 2 | 68, 1 | |
| 1841 | 349 | 80/12/14 | 1504:35 | 1505:05 | 96 | 179 | 3396 | | 2 | 68, 1 | M |
| 1842 | 350 | 80/12/15 | 0051:05 | 0052:20 | 135 | 116 | 3548 | | 2 | 68, 2 | |
| 1843 | 350 | 80/12/15 | 0740:05 | 0740:25 | 35 | 85 | | | 2 | | |
| 1844 | 350 | 80/12/15 | 1817:40 | 1817:45 | 18 | 133 | 367 | | 5 | 68, 3 | |
| 1845 | 350 | 80/12/15 | 2135:55 | 2136:25 | 68 | 202 | 1668 | | 5 | 68, 4 | |
| 1846 | 351 | 80/12/16 | 0101:05 | 0101:25 | 143 | 765 | 20890 | | 5 | 68, 5 | M |
| 1847 | 351 | 80/12/16 | 0352:40 | 0353:00 | 50 | 81 | | | 2 | | |
| 1848 | 351 | 80/12/16 | 0906:30 | 0907:40 | 285 | 213 | 14856 | | 5 | 68, 6 | |
| 1849 | 351 | 80/12/16 | 0954:35 | 0956:25 | 363 | 768 | 1.11E+05 | | 5 | 68, 7 | M, SN, ES |
| 1850 | 351 | 80/12/16 | 1451:45 | 1453:30 | 379 | 3958 | 1.00E+05 | | 10 | 68, 8 | M, ES |
| 1851 | 352 | 80/12/17 | 0422:50 | 0423:35 | 91 | 324 | 3865 | | 5 | 68, 9 | M |
| 1852 | 352 | 80/12/17 | 0845:05 | 0845:45 | 118 | 3601 | 43674 | | 15 | 68, 10 | M |
| 1853 | 352 | 80/12/17 | 1132:20 | 1132:55 | 55 | 166 | 1114 | | 5 | 68, 12 | M |
| 1854 | 352 | 80/12/17 | 1206:50 | 1208:30 | 670 | 2365 | 2.05E+05 | | 5 | 68, 13 | M, SA |
| 1855 | 352 | 80/12/17 | 2255:10 | 2257:35 | 242 | 404 | 24271 | | 5 | 68, 14 | |
| 1856 | 353 | 80/12/18 | 0147:15 | 0147:40 | 169 | 217 | 7289 | | 2 | 68, 15 | SN |
| 1857 | 353 | 80/12/18 | 1921:10 | 1921:20 | 41 | 6038 | 27052 | | 15 | 68, 16 | |
| 1858 | 353 | 80/12/18 | 1933:55 | 1934:05 | 35 | 98 | | | 2 | | |
| 1859 | 354 | 80/12/19 | 1608:05 | 1627:15 | 1161 | 128 | 32516 | | 5 | 69, 1 | ES |
| 1860 | 354 | 80/12/19 | 2012:15 | 2012:40 | 138 | 288 | 11757 | | 5 | 69, 2 | |
| 1861 | 356 | 80/12/21 | 0359:50 | 0400:30 | 127 | 113 | 2506 | | 2 | 69, 4 | |
| 1862 | 356 | 80/12/21 | 2133:05 | 2133:15 | 37 | 108 | 764 | | 2 | 69, 5 | |
| 1863 | 357 | 80/12/22 | 0204:35 | 0205:50 | 80 | 71 | | | 2 | | |
| 1864 | 357 | 80/12/22 | 1501:05 | 1501:20 | 64 | 108 | 1184 | | 2 | | |
| 1865 | 358 | 80/12/23 | 2114:10 | 2115:50 | 262 | 1600 | 72137 | | 10 | 69, 6 | |
| 1866 | 359 | 80/12/24 | 1002:25 | 1002:40 | 30 | 75 | | | 2 | | |
| 1867 | 359 | 80/12/24 | 1054:30 | 1054:55 | 45 | 70 | | | 2 | | |
| 1868 | 359 | 80/12/24 | 2230:40 | 2230:45 | 40 | 95 | | | 2 | | |
| 1869 | 360 | 80/12/25 | 0125:55 | 0128:00 | 571 | 165 | 20124 | | 10 | 69, 7 | |
| 1870 | 360 | 80/12/25 | 0649:00 | 0649:35 | 70 | 94 | | | 2 | | |
| 1871 | 360 | 80/12/25 | 1912:45 | 1913:25 | 145 | 119 | 2339 | | 2 | 69, 8 | |
| 1872 | 360 | 80/12/25 | 2031:00 | 2031:30 | 60 | 81 | | | 2 | | |
| 1873 | 360 | 80/12/25 | 2051:35 | 2052:00 | 53 | 130 | 1646 | | 2 | 69, 9 | |
| 1874 | 361 | 80/12/26 | 0032:25 | 0033:40 | 130 | 72 | | | 2 | | |
| 1875 | 361 | 80/12/26 | 0330:15 | 0330:30 | 22 | 109 | 205 | | 2 | 69, 10 | |
| 1876 | 361 | 80/12/26 | 0623:30 | 0624:05 | 79 | 184 | 3360 | | 5 | 69, 11 | |
| 1877 | 361 | 80/12/26 | 0815:30 | 0815:40 | 20 | 70 | | | 2 | | |
| 1878 | 362 | 80/12/27 | 0822:40 | 0822:55 | 30 | 80 | | | 2 | | |
| 1879 | 362 | 80/12/27 | 2241:15 | 2241:40 | 44 | 167 | 1351 | | 5 | 69, 15 | |
| 1880 | 362 | 80/12/27 | 2329:50 | 2330:40 | 180 | 99 | | | 5 | | |
| 4261 | 363 | 80/12/28 | 0250:40 | 0250:45 | 12 | 125 | | | 4 | 143, 7 | I |
| 1881 | 363 | 80/12/28 | 0451:30 | 0452:35 | 145 | 74 | | | 2 | | |
| 1882 | 363 | 80/12/28 | 1129:05 | 1130:45 | 115 | 121 | 1519 | | 2 | 69, 16 | |
| 1883 | 363 | 80/12/28 | 1431:25 | 1431:40 | 29 | 110 | 415 | | 2 | 70, 1 | |
| 1884 | 363 | 80/12/28 | 1712:00 | 1712:45 | 124 | 209 | 4578 | | 5 | 70, 2 | |
| 1885 | 363 | 80/12/28 | 1757:20 | 1757:55 | 45 | 110 | 739 | | 2 | 70, 3 | |

ORIGINAL PAGE IS
OF POOR QUALITY

52

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1886 | 363 | 80/12/28 | 1903:55 | 1906:45 | 337 | 1889 | 86541 | | 10 | 70, 4 | |
| 1887 | 363 | 80/12/28 | 1919:45 | 1920:10 | 49 | 208 | 1398 | | 5 | 70, 4 | |
| 1888 | 363 | 80/12/28 | 2145:10 | 2145:20 | 30 | 74 | | | 2 | | |
| 1889 | 363 | 80/12/28 | 2229:25 | 2229:40 | 45 | 82 | | | 2 | | |
| 1890 | 363 | 80/12/28 | 2243:40 | 2243:50 | 30 | 65 | | | 2 | | |
| 1891 | 363 | 80/12/28 | 2339:00 | 2340:00 | 219 | 167 | 5003 | | 5 | 70, 5 | |
| 1892 | 363 | 80/12/28 | 2355:30 | 2355:50 | 85 | 277 | 2647 | | 5 | 70, 6 | |
| 1893 | 364 | 80/12/29 | 0105:45 | 0106:40 | 420 | 225 | 34304 | | 10 | 70, 7 | |
| 1894 | 364 | 80/12/29 | 0132:05 | 0132:15 | 20 | 76 | | | 2 | | |
| 1895 | 364 | 80/12/29 | 0424:10 | 0424:55 | 135 | 778 | 12088 | | 10 | 70, 8 | |
| 1896 | 364 | 80/12/29 | 1031:40 | 1033:20 | 107 | 305 | 6075 | | 5 | 70, 9 | ES |
| 1897 | 364 | 80/12/29 | 1125:00 | 1127:30 | 336 | 202 | 12794 | | 2 | 70, 10 | |
| 1898 | 364 | 80/12/29 | 1305:30 | 1305:40 | 57 | 357 | 5293 | | 5 | 70, 11 | |
| 1899 | 364 | 80/12/29 | 1425:50 | 1426:40 | 130 | 86 | | | 2 | | |
| 1900 | 364 | 80/12/29 | 1429:50 | 1430:05 | 205 | 206 | 3885 | | 5 | 70, 12 | |
| 1901 | 364 | 80/12/29 | 2032:05 | 2032:35 | 90 | 72 | | | 2 | | |
| 5779 | 365 | 80/12/30 | 1917:47 | 1917:58 | 40 | 81 | | | 2 | | I |

ORIGINAL PAGE
OF POOR QUALITY

53

HXRBS EVENT LISTING 83/04/15, 0004:20.760

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1902 | 1 | 81/01/01 | 0051:50 | 0052:55 | 105 | 83 | | | 5 | | |
| 1903 | 2 | 81/01/02 | 0038:55 | 0038:55 | 70 | 94 | | | 10 | | SA |
| 1904 | 3 | 81/01/03 | 0036:45 | 0038:20 | 120 | 95 | | | 2 | | |
| 1905 | 3 | 81/01/03 | 0252:10 | 0253:15 | 130 | 87 | | | 2 | | |
| 1906 | 3 | 81/01/03 | 1550:30 | 1551:15 | 150 | 92 | | | 2 | | |
| 1907 | 3 | 81/01/03 | 1838:20 | 1838:40 | 65 | 62 | | | 2 | | |
| 1909 | 4 | 81/01/04 | 0024:55 | 0024:55 | 70 | 137 | | | 10 | 70, 14 | SA |
| 1908 | 4 | 81/01/04 | 0922:40 | 0923:30 | 88 | 163 | 1436 | | 2 | 70, 13 | |
| 1910 | 5 | 81/01/05 | 1619:10 | 1619:20 | 539 | 186 | 25680 | | 2 | 70, 15 | SN |
| 1911 | 5 | 81/01/05 | 2002:34 | 2006:05 | 288 | 80 | | | 2 | 71, 1 | |
| 1912 | 5 | 81/01/05 | 2012:50 | 2013:20 | 85 | 212 | 3707 | | 2 | 71, 1 | |
| 1913 | 5 | 81/01/05 | 2138:45 | 2139:05 | 96 | 757 | 15314 | | 5 | 71, 2 | M |
| 1914 | 6 | 81/01/06 | 0426:15 | 0428:40 | 515 | 163 | 17562 | | 5 | 71, 4 | |
| 1915 | 6 | 81/01/06 | 1202:15 | 1202:10 | 250 | 133 | 4712 | | 2 | 71, 5 | |
| 1916 | 7 | 81/01/07 | 1534:55 | 1535:10 | 90 | 67 | | | 2 | | |
| 1917 | 8 | 81/01/08 | 1223:25 | 1224:40 | 135 | 132 | 3686 | | 2 | 71, 6 | |
| 1918 | 8 | 81/01/08 | 1313:45 | 1314:50 | 125 | 77 | | | 2 | | |
| 1919 | 10 | 81/01/10 | 0458:00 | 0459:10 | 243 | 335 | 17215 | | 5 | 71, 7 | |
| 1920 | 10 | 81/01/10 | 1255:15 | 1256:10 | 127 | 452 | 9207 | | 5 | 71, 8 | |
| 1921 | 11 | 81/01/11 | 0958:50 | 0959:15 | 40 | 79 | | | 2 | | |
| 1922 | 11 | 81/01/11 | 1200:20 | 1200:35 | 50 | 83 | | | 2 | | |
| 1923 | 12 | 81/01/12 | 0512:40 | 0513:10 | 64 | 112 | 466 | | 2 | 71, 9 | |
| 1924 | 12 | 81/01/12 | 0515:10 | 0515:25 | 45 | 97 | | | 2 | 71, 9 | |
| 1925 | 14 | 81/01/14 | 0937:40 | 0938:25 | 135 | 86 | | | 2 | | |
| 1926 | 14 | 81/01/14 | 1232:50 | 1234:10 | 165 | 95 | | | 2 | | |
| 1927 | 14 | 81/01/14 | 2058:50 | 2100:25 | 193 | 340 | 17334 | | 5 | 71, 10 | |
| 1928 | 14 | 81/01/14 | 2226:50 | 2226:55 | 93 | 114 | 1609 | | 10 | 71, 11 | |
| 1929 | 15 | 81/01/15 | 1721:30 | 1722:00 | 65 | 69 | | | 2 | | |
| 1933 | 16 | 81/01/16 | 0307:35 | 0307:55 | 45 | 81 | | | 2 | | |
| 1930 | 16 | 81/01/16 | 0606:40 | 0607:20 | 55 | 82 | | | 2 | | |
| 1931 | 16 | 81/01/16 | 0657:00 | 0657:25 | 25 | 74 | | | 2 | | |
| 1932 | 16 | 81/01/16 | 0834:35 | 0835:00 | 54 | 336 | 4641 | | 5 | 71, 12 | |
| 1934 | 17 | 81/01/17 | 1423:15 | 1423:45 | 75 | 65 | | | 2 | | |
| 1935 | 22 | 81/01/22 | 1516:50 | 1517:30 | 60 | 83 | | | 2 | | |
| 1936 | 24 | 81/01/24 | 0712:30 | 0713:30 | 150 | 68 | | | 2 | | |
| 1937 | 25 | 81/01/25 | 0109:25 | 0110:35 | 99 | 423 | 3774 | | 5 | 71, 13 | |
| 1938 | 25 | 81/01/25 | 0120:30 | 0121:50 | 170 | 95 | | | 2 | | |
| 1939 | 25 | 81/01/25 | 0217:50 | 0221:30 | 387 | 613 | 71410 | | 5 | 71, 14 | |
| 1940 | 25 | 81/01/25 | 0406:35 | 0408:35 | 510 | 341 | 22496 | | 2 | 71, 15 | |
| 1941 | 25 | 81/01/25 | 0615:05 | 0616:40 | 210 | 180 | 12305 | | 2 | 71, 16 | EN |
| 1942 | 25 | 81/01/25 | 0709:25 | 0710:50 | 274 | 254 | 14968 | | 2 | 72, 1 | |
| 1943 | 25 | 81/01/25 | 0744:15 | 0747:00 | 551 | 31930 | 2.35E+06 | | 10 | 72, 2 | M |
| 5795 | 25 | 81/01/25 | 0830:28 | 0830:41 | 113 | 753 | 16886 | | 3 | 184, 9 | I |
| 5796 | 25 | 81/01/25 | 0832:34 | 0833:24 | 109 | 262 | 9083 | | 2 | 184, 9 | I |
| 5797 | 25 | 81/01/25 | 0846:36 | 0905:31 | 2597 | 1281 | 1.16E+06 | | 15 | 184, 10 | I |
| 1944 | 25 | 81/01/25 | 1029:10 | 1029:40 | 95 | 83 | | | 2 | | |
| 1945 | 25 | 81/01/25 | 1047:35 | 1048:40 | 142 | 105 | 2013 | | 2 | 72, 3 | |
| 1946 | 25 | 81/01/25 | 1639:35 | 1647:10 | 656 | 556 | 53094 | | 2 | 72, 4 | M |
| 1947 | 25 | 81/01/25 | 1959:10 | 2000:00 | 133 | 117 | 1566 | | 2 | 72, 5 | |
| 1948 | 25 | 81/01/25 | 2308:05 | 2308:50 | 190 | 76 | | | 2 | | |
| 1949 | 25 | 81/01/25 | 2321:20 | 2322:30 | 223 | 114 | 3267 | | 2 | 72, 6 | |

ORIGINAL REPORT OF POOR QUALITY

54

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 1950 | 26 | 81/01/26 | 0205:15 | 0209:30 | 668 | 826 | 68507 | | 5 | 72, 7 | M |
| 1951 | 26 | 81/01/26 | 0250:05 | 0255:40 | 734 | 394 | 55083 | | 5 | 72, 7 | |
| 1952 | 26 | 81/01/26 | 0402:10 | 0402:55 | 125 | 79 | | | 2 | | |
| 1953 | 26 | 81/01/26 | 0407:55 | 0411:50 | 326 | 177 | 10049 | | 2 | 72, 8 | |
| 1954 | 26 | 81/01/26 | 0723:00 | 0723:25 | 68 | 147 | 1549 | | 2 | 72, 9 | |
| 1955 | 26 | 81/01/26 | 1013:10 | 1015:00 | 255 | 178 | 8400 | | 2 | 72, 10 | |
| 1956 | 26 | 81/01/26 | 1029:35 | 1031:00 | 210 | 305 | 12068 | | 2 | 72, 10 | |
| 1957 | 26 | 81/01/26 | 1234:05 | 1235:05 | 139 | 240 | 8201 | | 2 | 72, 11 | M |
| 1958 | 26 | 81/01/26 | 1318:40 | 1319:10 | 70 | 65 | | | 2 | | |
| 1959 | 26 | 81/01/26 | 1321:50 | 1321:55 | 80 | 63 | | | 2 | | |
| 1960 | 26 | 81/01/26 | 2005:35 | 2006:00 | 45 | 82 | | | 2 | | |
| 1961 | 27 | 81/01/27 | 0031:05 | 0031:30 | 35 | 74 | | | 2 | | |
| 1962 | 27 | 81/01/27 | 0402:00 | 0402:30 | 110 | 83 | | | 2 | | |
| 1963 | 27 | 81/01/27 | 0532:45 | 0535:20 | 386 | 305 | 17629 | | 2 | 72, 12 | |
| 1964 | 27 | 81/01/27 | 1540:55 | 1542:15 | 91 | 197 | 4386 | | 5 | 72, 13 | M, EN |
| 1965 | 27 | 81/01/27 | 2312:30 | 2312:50 | 55 | 99 | | | 2 | | |
| 1966 | 28 | 81/01/28 | 0204:05 | 0213:35 | 1239 | 381 | 88176 | | 5 | 72, 14 | |
| 1967 | 28 | 81/01/28 | 0244:45 | 0245:35 | 70 | 90 | | | 2 | | |
| 1968 | 28 | 81/01/28 | 0409:35 | 0413:20 | 1101 | 10450 | 1.08E+06 | | 12 | 72, 15 | M |
| 1969 | 28 | 81/01/28 | 0516:05 | 0516:25 | 45 | 63 | | | 2 | | |
| 1970 | 28 | 81/01/28 | 0831:45 | 0832:00 | 60 | 98 | | | 2 | | |
| 1971 | 28 | 81/01/28 | 1953:00 | 1953:20 | 40 | 100 | | | 2 | | |
| 1972 | 29 | 81/01/29 | 0024:15 | 0024:55 | 72 | 226 | 2320 | | 5 | 72, 16 | |
| 1973 | 29 | 81/01/29 | 0026:10 | 0028:20 | 330 | 181 | 11001 | | 2 | 72, 16 | |
| 1974 | 29 | 81/01/29 | 0408:45 | 0409:20 | 274 | 310 | 9721 | | 5 | 73, 1 | |
| 1975 | 29 | 81/01/29 | 1023:00 | 1023:20 | 45 | 53 | | | 2 | | |
| 1976 | 29 | 81/01/29 | 1209:20 | 1209:40 | 50 | 89 | | | 2 | | |
| 1977 | 29 | 81/01/29 | 1444:00 | 1444:05 | 47 | 110 | 755 | | 2 | 73, 2 | |
| 1978 | 29 | 81/01/29 | 1445:20 | 1446:15 | 81 | 540 | 7390 | | 10 | 73, 2 | M |
| 1980 | 30 | 81/01/30 | 0010:05 | 0010:30 | 35 | 83 | | | 2 | | |
| 1981 | 30 | 81/01/30 | 0320:25 | 0320:50 | 50 | 76 | | | 2 | | |
| 1982 | 30 | 81/01/30 | 0327:10 | 0328:00 | 91 | 140 | 1215 | | 2 | 73, 3 | |
| 1983 | 30 | 81/01/30 | 0401:25 | 0401:30 | 20 | 69 | | | 2 | | |
| 1984 | 30 | 81/01/30 | 0848:55 | 0849:20 | 99 | 118 | 1795 | | 2 | 73, 4 | |
| 1985 | 30 | 81/01/30 | 1038:35 | 1038:55 | 60 | 61 | | | 2 | | |
| 1986 | 30 | 81/01/30 | 1121:35 | 1122:05 | 94 | 247 | 3284 | | 5 | 73 | M |
| 1987 | 30 | 81/01/30 | 1622:40 | 1623:15 | 77 | 121 | 1204 | | 2 | 73, 6 | |
| 1988 | 30 | 81/01/30 | 2119:30 | 2120:15 | 70 | 64 | | | 2 | | |
| 1989 | 31 | 81/01/31 | 0703:20 | 0703:40 | 50 | 93 | | | 2 | | |
| 1990 | 31 | 81/01/31 | 1029:30 | 1030:35 | 222 | 104 | 3898 | | 2 | 73, 7 | |
| 1991 | 31 | 81/01/31 | 1932:35 | 1933:35 | 112 | 723 | 9611 | | 5 | 73, 8 | |
| 1992 | 31 | 81/01/31 | 2358:55 | 2359:35 | 198 | 274 | 5120 | | 5 | 73, 9 | |
| 1993 | 32 | 81/02/01 | 0334:55 | 0335:20 | 47 | 179 | 1487 | | 2 | 73, 10 | |
| 1994 | 32 | 81/02/01 | 0346:25 | 0346:40 | 75 | 97 | | | 2 | | |
| 1995 | 33 | 81/02/02 | 1241:30 | 1241:50 | 30 | 69 | | | 2 | | |
| 1996 | 33 | 81/02/02 | 1242:20 | 1242:30 | 25 | 62 | | | 2 | | |
| 1997 | 33 | 81/02/02 | 1549:25 | 1549:50 | 125 | 65 | | | 2 | | |
| 1998 | 33 | 81/02/02 | 1904:15 | 1904:55 | 70 | 70 | | | 2 | | |
| 1999 | 36 | 81/02/05 | 1003:40 | 1004:05 | 45 | 76 | | | 2 | | |
| 2000 | 36 | 81/02/05 | 2225:15 | 2234:15 | 1653 | 120 | 17321 | | 5 | 74, 1 | |
| 2001 | 37 | 81/02/06 | 0027:05 | 0028:20 | 178 | 176 | 8172 | | 2 | 74, 2 | M |
| 2002 | 37 | 81/02/06 | 1621:05 | 1621:15 | 47 | 137 | 980 | | 2 | 74, 3 | |
| 2003 | 37 | 81/02/06 | 2057:35 | 2057:55 | 65 | 75 | | | 2 | | |

ORIGINAL PAGE 101

| HXRBS EVENT | UCY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | POSITION SEC | QUALITY RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|------------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2004 | 37 | 81/02/06 | 2159:20 | 2200:00 | 164 | 187 | 9071 | | 2 | 74, 4 | |
| 2005 | 37 | 81/02/06 | 2338:35 | 2339:15 | 132 | 327 | 6135 | | 5 | 74, 6 | M |
| 2006 | 38 | 81/02/07 | 0117:05 | 0118:15 | 312 | 122 | 7502 | | 5 | 74, 7 | |
| 2007 | 38 | 81/02/07 | 0319:00 | 0319:27 | 80 | 69 | | | 2 | | |
| 2008 | 38 | 81/02/07 | 0325:45 | 0325:55 | 35 | 80 | | | 2 | | |
| 2009 | 38 | 81/02/07 | 0332:35 | 0333:10 | 190 | 1135 | 32644 | | 5 | 74, 8 | M |
| 2010 | 38 | 81/02/07 | 0503:30 | 0503:50 | 65 | 108 | 1131 | | 2 | 74, 9 | |
| 2011 | 38 | 81/02/07 | 1348:15 | 1348:40 | 103 | 2069 | 35404 | | 10 | 74, 10 | |
| 2012 | 38 | 81/02/07 | 1352:55 | 1355:10 | 338 | 102 | 4009 | | 2 | 74, 11 | |
| 2013 | 38 | 81/02/07 | 1534:20 | 1535:05 | 153 | 214 | 4402 | | 5 | 74, 12 | |
| 2014 | 38 | 81/02/07 | 1708:25 | 1708:45 | 40 | 79 | | | 2 | | |
| 2015 | 38 | 81/02/07 | 1754:55 | 1755:45 | 115 | 74 | | | 2 | 74, 13 | |
| 2016 | 38 | 81/02/07 | 1757:10 | 1757:45 | 105 | 101 | 1781 | | 2 | 74, 13 | |
| 2017 | 38 | 81/02/07 | 1835:00 | 1835:10 | 220 | 447 | 26322 | | 5 | 74, 14 | SN |
| 2018 | 38 | 81/02/07 | 1845:45 | 1845:55 | 35 | 87 | | | 2 | | |
| 2019 | 38 | 81/02/07 | 1848:00 | 1849:35 | 130 | 143 | 1550 | | 2 | 74, 15 | |
| 2020 | 38 | 81/02/07 | 2058:20 | 2058:30 | 162 | 256 | 6564 | | 5 | 74, 16 | |
| 2021 | 38 | 81/02/07 | 2155:00 | 2155:50 | 208 | 84 | 3382 | | 5 | 75, 1 | |
| 2022 | 38 | 81/02/07 | 2217:45 | 2218:50 | 199 | 196 | 7164 | | 2 | 75, 2 | |
| 2023 | 38 | 81/02/07 | 2225:10 | 2229:40 | 555 | 235 | 34125 | | 2 | 75, 2 | |
| 2024 | 39 | 81/02/08 | 0103:00 | 0103:20 | 45 | 95 | | | 2 | 75, 3 | |
| 2025 | 39 | 81/02/08 | 0109:35 | 0110:50 | 287 | 171 | 9317 | | 5 | 75, 3 | |
| 2026 | 39 | 81/02/08 | 0116:40 | 0117:20 | 84 | 143 | 2040 | | 5 | 75, 3 | |
| 2027 | 39 | 81/02/08 | 0118:20 | 0120:30 | 222 | 150 | 3824 | | 5 | 75, 3 | |
| 2028 | 39 | 81/02/08 | 0129:25 | 0137:35 | 555 | 138 | 7140 | | 2 | 75, 3 | |
| 2029 | 39 | 81/02/08 | 0138:45 | 0140:40 | 306 | 602 | 29307 | | 5 | 75, 3 | |
| 2030 | 39 | 81/02/08 | 0325:20 | 0329:20 | 437 | 866 | 71962 | | 5 | 75, 4 | |
| 2031 | 39 | 81/02/08 | 0421:25 | 0422:20 | 166 | 423 | 11779 | | 5 | 75, 5 | |
| 2032 | 39 | 81/02/08 | 0449:45 | 0450:05 | 45 | 77 | | | 2 | | |
| 2033 | 39 | 81/02/08 | 0757:30 | 0757:50 | 55 | 89 | | | 2 | | |
| 2034 | 39 | 81/02/08 | 0759:20 | 0759:45 | 60 | 87 | | | 2 | | |
| 2035 | 39 | 81/02/08 | 0938:40 | 0939:10 | 68 | 784 | 3735 | | 5 | 75, 6 | |
| 2036 | 39 | 81/02/08 | 0940:25 | 0940:55 | 125 | 425 | 2073 | | 5 | 75, 6 | |
| 2037 | 39 | 81/02/08 | 1348:35 | 1349:35 | 153 | 307 | 8191 | | 5 | 75, 7 | |
| 2038 | 39 | 81/02/08 | 1523:05 | 1523:20 | 35 | 82 | | | 2 | | |
| 2039 | 39 | 81/02/08 | 1708:20 | 1708:30 | 20 | 142 | 575 | | 2 | 75, 8 | |
| 2040 | 39 | 81/02/08 | 1839:50 | 1839:55 | 25 | 81 | | | 2 | | |
| 2041 | 39 | 81/02/08 | 2027:45 | 2028:15 | 47 | 117 | 948 | | 5 | 75, 9 | |
| 2042 | 39 | 81/02/08 | 2150:20 | 2153:25 | 336 | 228 | 15638 | | 10 | 75, 10 | |
| 2043 | 40 | 81/02/09 | 0236:15 | 0237:30 | 130 | 88 | | | 2 | | |
| 2044 | 40 | 81/02/09 | 0302:35 | 0302:50 | 50 | 80 | | | 2 | | |
| 2045 | 40 | 81/02/09 | 0403:35 | 0414:05 | 985 | 140 | 27214 | | 10 | 75, 11 | AX |
| 5798 | 40 | 81/02/09 | 1121:18 | 1121:49 | 64 | 1680 | 21656 | | 9 | 184, 11 | I |
| 2046 | 40 | 81/02/09 | 1254:40 | 1255:00 | 31 | 62 | 210 | | 2 | | |
| 2047 | 40 | 81/02/09 | 1522:45 | 1523:25 | 90 | 68 | | | 2 | | |
| 2048 | 40 | 81/02/09 | 1612:10 | 1612:15 | 25 | 60 | | | 2 | | |
| 2049 | 40 | 81/02/09 | 1648:55 | 1649:30 | 115 | 73 | | | 2 | | |
| 2050 | 40 | 81/02/09 | 2008:20 | 2009:10 | 170 | 67 | | | 5 | | |
| 2051 | 40 | 81/02/09 | 2042:15 | 2051:15 | 758 | 101 | 5160 | | 5 | 75, 12 | |
| 2052 | 40 | 81/02/09 | 2142:40 | 2143:40 | 313 | 244 | 18634 | | 10 | 75, 13 | |
| 2053 | 40 | 81/02/09 | 2351:40 | 2352:05 | 60 | 62 | | | 2 | | |
| 2054 | 41 | 81/02/10 | 0006:00 | 0006:45 | 95 | 58 | | | 2 | | |
| 2055 | 41 | 81/02/10 | 0057:50 | 0058:55 | 150 | 92 | | | 5 | | |

ORIGINAL LIST OF POOR QUALITY

56

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2056 | 41 | 81/02/10 | 0138:25 | 0139:15 | 156 | 127 | 2966 | | 2 | 75, 14 | |
| 2057 | 41 | 81/02/10 | 0141:25 | 0141:50 | 65 | 66 | | | 2 | 75, 14 | |
| 2058 | 41 | 81/02/10 | 0222:40 | 0223:45 | 135 | 965 | 22494 | | 10 | 75, 15 | |
| 2059 | 41 | 81/02/10 | 0251:45 | 0252:35 | 205 | 510 | 7741 | | 10 | 75, 16 | |
| 2060 | 41 | 81/02/10 | 0308:40 | 0309:20 | 110 | 160 | 3903 | | 5 | 76, 1 | M |
| 2061 | 41 | 81/02/10 | 0316:00 | 0321:00 | 365 | 1217 | 31002 | | 10 | 76, 1 | |
| 2062 | 41 | 81/02/10 | 0437:35 | 0438:30 | 165 | 71 | | | 2 | | |
| 2063 | 41 | 81/02/10 | 0559:30 | 0601:10 | 190 | 284 | 6518 | | 5 | 76, 2 | |
| 2064 | 41 | 81/02/10 | 0927:10 | 0927:30 | 81 | 130 | 850 | | 5 | 76, 3 | |
| 2065 | 41 | 81/02/10 | 1333:25 | 1333:50 | 45 | 77 | | | 2 | | |
| 2066 | 41 | 81/02/10 | 1913:25 | 1914:10 | 65 | 64 | | | 2 | | |
| 2067 | 42 | 81/02/11 | 0119:20 | 0131:50 | 960 | 84 | 7361 | | 2 | 76, 4 | |
| 2068 | 42 | 81/02/11 | 0245:15 | 0245:55 | 95 | 90 | | | 2 | | |
| 2069 | 42 | 81/02/11 | 0610:35 | 0611:05 | 65 | 57 | | | 2 | | |
| 2070 | 42 | 81/02/11 | 1053:05 | 1053:30 | 50 | 99 | | | 2 | | |
| 2071 | 42 | 81/02/11 | 2003:05 | 2003:25 | 40 | 85 | | | 2 | | |
| 2072 | 43 | 81/02/12 | 0121:35 | 0122:20 | 225 | 494 | 9845 | | 5 | 76, 5 | |
| 2073 | 43 | 81/02/12 | 0412:50 | 0413:30 | 68 | 218 | 1982 | | 5 | 76, 6 | |
| 2074 | 43 | 81/02/12 | 0432:55 | 0433:50 | 140 | 136 | 4553 | | 2 | 76, 7 | |
| 5842 | 43 | 81/02/12 | 0929:17 | 0931:18 | 208 | 295 | 9988 | | 3 | 185, 8 | I |
| 2075 | 43 | 81/02/12 | 1048:15 | 1049:15 | 137 | 360 | 8410 | | 5 | 76, 8 | |
| 2076 | 43 | 81/02/12 | 1241:00 | 1242:20 | 169 | 1043 | 36119 | | 10 | 76, 9 | M |
| 2077 | 43 | 81/02/12 | 1731:10 | 1731:25 | 75 | 125 | 1611 | | 2 | 76, 11 | M |
| 2078 | 43 | 81/02/12 | 1809:25 | 1810:30 | 100 | 66 | | | 2 | | |
| 2079 | 43 | 81/02/12 | 2000:25 | 2002:25 | 180 | 91 | | | 2 | | |
| 2080 | 44 | 81/02/13 | 0042:15 | 0044:35 | 259 | 89 | 6504 | | 2 | 76, 12 | |
| 2081 | 44 | 81/02/13 | 0412:45 | 0416:15 | 400 | 132 | 12355 | | 2 | 76, 13 | |
| 2082 | 44 | 81/02/13 | 0549:40 | 0550:10 | 57 | 103 | 1471 | | 2 | 76, 14 | |
| 2083 | 44 | 81/02/13 | 0614:30 | 0617:25 | 193 | 128 | 3102 | | 2 | 76, 15 | |
| 2084 | 44 | 81/02/13 | 1406:10 | 1408:20 | 188 | 234 | 10187 | | 2 | 76, 16 | |
| 2085 | 44 | 81/02/13 | 1701:40 | 1701:55 | 35 | 72 | | | 2 | | |
| 5843 | 44 | 81/02/13 | 2159:43 | 2200:07 | 50 | 115 | 1257 | | 2 | 185, 9 | I |
| 2086 | 45 | 81/02/14 | 1213:35 | 1214:15 | 120 | 96 | | | 2 | | |
| 2087 | 46 | 81/02/15 | 0050:20 | 0050:55 | 201 | 342 | 11721 | | 2 | 77, 1 | |
| 2088 | 46 | 81/02/15 | 0243:40 | 0244:05 | 65 | 137 | 2326 | | 2 | 77, 2 | |
| 2089 | 46 | 81/02/15 | 1938:15 | 1938:45 | 86 | 104 | 1513 | | 2 | 77, 3 | |
| 2090 | 46 | 81/02/15 | 2111:40 | 2112:10 | 112 | 458 | 33325 | | 10 | 77, 4 | M |
| 2091 | 47 | 81/02/16 | 0239:25 | 0240:00 | 65 | 165 | 1810 | | 2 | 77, 6 | |
| 2092 | 47 | 81/02/16 | 0546:35 | 0547:05 | 124 | 158 | 3215 | | 2 | 77, 7 | |
| 2093 | 47 | 81/02/16 | 0550:55 | 0551:10 | 32 | 136 | 1045 | | 2 | 77, 7 | |
| 2094 | 47 | 81/02/16 | 0840:15 | 0840:25 | 33 | 115 | 363 | | 2 | 77, 8 | |
| 2095 | 47 | 81/02/16 | 1215:20 | 1215:50 | 293 | 146 | 5214 | | 2 | 77, 9 | |
| 2096 | 47 | 81/02/16 | 1508:50 | 1509:05 | 43 | 107 | 1300 | | 2 | 77, 10 | |
| 2097 | 48 | 81/02/17 | 0013:05 | 0014:15 | 155 | 106 | 2691 | | 5 | 77, 11 | |
| 2098 | 48 | 81/02/17 | 0410:05 | 0411:00 | 96 | 143 | 2169 | | 2 | 77, 12 | |
| 2099 | 48 | 81/02/17 | 2145:30 | 2146:30 | 451 | 9646 | 9.40E+05 | | 15 | 77, 13 | M |
| 2100 | 49 | 81/02/18 | 1333:45 | 1334:00 | 77 | 289 | 2525 | | 5 | 77, 14 | |
| 2101 | 49 | 81/02/18 | 1456:20 | 1456:40 | 30 | 73 | | | 2 | | |
| 2102 | 49 | 81/02/18 | 1639:10 | 1639:25 | 217 | 239 | 6239 | | 5 | 77, 15 | |
| 2103 | 49 | 81/02/18 | 2238:10 | 2238:50 | 60 | 71 | | | 2 | | |
| 2104 | 50 | 81/02/19 | 0324:15 | 0337:15 | 2810 | 1906 | 1.17E+06 | | 10 | 77, 16 | M |
| 2105 | 50 | 81/02/19 | 1419:25 | 1420:15 | 95 | 84 | | | 2 | | |
| 2106 | 50 | 81/02/19 | 1951:35 | 1952:25 | 95 | 64 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

57

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPEN, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2107 | 50 | 81/02/19 | 2133:15 | 2133:25 | 41 | 240 | 1157 | | 5 | 78, 1 | |
| 2108 | 50 | 81/02/19 | 2137:10 | 2138:00 | 118 | 150 | 2288 | | 2 | 78, 1 | |
| 2109 | 51 | 81/02/20 | 0535:25 | 0536:05 | 75 | 65 | | | 2 | | |
| 5844 | 51 | 81/02/20 | 0639:03 | 0645:51 | 2036 | 25356 | 5.90E+06 | | 9 | 185, 10 | M, I |
| 2110 | 51 | 81/02/20 | 2232:15 | 2232:45 | 55 | 78 | | | 2 | | |
| 2111 | 51 | 81/02/20 | 2253:45 | 2254:25 | 85 | 79 | | | 2 | | |
| 2112 | 51 | 81/02/20 | 2301:30 | 2302:00 | 104 | 106 | 21835 | | 2 | 78, 2 | |
| 2113 | 52 | 81/02/21 | 1553:45 | 1554:05 | 25 | 98 | | | 5 | | |
| 2114 | 52 | 81/02/21 | 1632:10 | 1632:35 | 55 | 93 | | | 2 | | |
| 2115 | 52 | 81/02/21 | 1852:55 | 1854:30 | 312 | 126 | 8555 | | 5 | 78, 3 | |
| 2116 | 52 | 81/02/21 | 1902:10 | 1903:05 | 181 | 214 | 8437 | | 5 | 78, 3 | |
| 2117 | 52 | 81/02/21 | 1934:50 | 1935:05 | 35 | 62 | | | 2 | | |
| 2118 | 52 | 81/02/21 | 2030:45 | 2033:05 | 258 | 162 | 10545 | | 5 | 78, 4 | |
| 2119 | 52 | 81/02/21 | 2208:20 | 2208:40 | 30 | 96 | | | 2 | | |
| 2120 | 52 | 81/02/21 | 2220:20 | 2222:10 | 141 | 103 | 1325 | | 2 | 78, 5 | |
| 2121 | 52 | 81/02/21 | 2227:00 | 2227:05 | 15 | 67 | | | 2 | | |
| 2122 | 52 | 81/02/21 | 2229:35 | 2229:45 | 25 | 198 | 1042 | | 2 | 78, 6 | |
| 5849 | 53 | 81/02/22 | 0000:51 | 0001:09 | 40 | 107 | 485 | | 2 | 185, 13 | I |
| 5847 | 53 | 81/02/22 | 1543:56 | 1552:37 | 795 | 87 | 9876 | | 2 | 185, 12 | I |
| 5848 | 53 | 81/02/22 | 1606:30 | 1606:51 | 64 | 71 | | | 2 | | I |
| 2123 | 53 | 81/02/22 | 1904:40 | 1904:55 | 55 | 118 | 955 | | 2 | 78, 7 | |
| 2124 | 53 | 81/02/22 | 2114:25 | 2115:15 | 60 | 98 | | | 2 | | |
| 5850 | 54 | 81/02/23 | 0007:22 | 0007:41 | 102 | 68 | | | 2 | | I |
| 2125 | 54 | 81/02/23 | 0024:50 | 0024:55 | 45 | 68 | | | 2 | | |
| 2126 | 54 | 81/02/23 | 0616:10 | 0617:10 | 115 | 96 | | | 2 | | |
| 2127 | 54 | 81/02/23 | 0652:35 | 0657:05 | 520 | 105 | 10026 | | 4 | 78, 8 | |
| 2128 | 55 | 81/02/24 | 0008:30 | 0011:05 | 1525 | 8243 | 1.05E+06 | | 15 | 78, 9 | |
| 2129 | 55 | 81/02/24 | 0629:20 | 0632:45 | 316 | 118 | 3515 | | 2 | 78, 10 | |
| 5851 | 55 | 81/02/24 | 0755:15 | 0759:58 | 577 | 85 | 8245 | | 2 | 185, 14 | NO, I |
| 5852 | 55 | 81/02/24 | 0817:52 | 0818:42 | 113 | 62 | | | 2 | | I |
| 5853 | 55 | 81/02/24 | 0820:33 | 0821:35 | 94 | 433 | 11734 | | 4 | 185, 15 | EG, I |
| 2130 | 55 | 81/02/24 | 1059:00 | 1059:20 | 610 | 131 | 14682 | | 2 | 78, 11 | SS |
| 2131 | 55 | 81/02/24 | 1121:35 | 1121:55 | 50 | 157 | 1389 | | 2 | 78, 12 | |
| 2132 | 55 | 81/02/24 | 1134:25 | 1134:45 | 40 | 73 | | | 2 | | |
| 2133 | 55 | 81/02/24 | 1217:45 | 1226:35 | 1878 | 3276 | 1.59E+06 | | 10 | 78, 13 | SN |
| 2134 | 55 | 81/02/24 | 1623:35 | 1624:15 | 60 | 76 | | | 2 | | |
| 2135 | 55 | 81/02/24 | 1757:15 | 1759:05 | 588 | 62 | 364 | | 2 | 78, 14 | |
| 2136 | 55 | 81/02/24 | 1855:40 | 1856:55 | 165 | 65 | | | 2 | | |
| 2137 | 55 | 81/02/24 | 1932:45 | 1936:35 | 607 | 19518 | 3.43E+06 | | 15 | 78, 15 | M, EN |
| 2138 | 55 | 81/02/24 | 2042:50 | 2044:25 | 186 | 216 | 8690 | | 2 | 78, 16 | |
| 2139 | 56 | 81/02/25 | 0203:40 | 0204:30 | 101 | 356 | 10665 | | 2 | 79, 1 | M |
| 2140 | 56 | 81/02/25 | 0241:05 | 0241:20 | 491 | 604 | 45724 | | 5 | 79, 2 | SN |
| 2141 | 56 | 81/02/25 | 0434:10 | 0434:35 | 20 | 100 | | | 2 | | |
| 2142 | 56 | 81/02/25 | 0446:55 | 0447:10 | 53 | 135 | 1475 | | 10 | 79, 3 | |
| 2143 | 56 | 81/02/25 | 0804:45 | 0805:55 | 143 | 234 | 3768 | | 5 | 79, 4 | |
| 2144 | 56 | 81/02/25 | 0922:55 | 0923:25 | 95 | 72 | | | 2 | | |
| 2145 | 56 | 81/02/25 | 1400:55 | 1401:00 | 38 | 230 | 1586 | | 2 | 79, 5 | |
| 2146 | 56 | 81/02/25 | 2232:10 | 2232:25 | 35 | 100 | | | 2 | | |
| 2147 | 57 | 81/02/26 | 0813:55 | 0814:30 | 60 | 60 | | | 2 | | |
| 2148 | 57 | 81/02/26 | 0926:45 | 0927:05 | 30 | 97 | | | 2 | | |
| 2149 | 57 | 81/02/26 | 0934:50 | 0936:10 | 110 | 85 | | | 2 | | |
| 2150 | 57 | 81/02/26 | 1227:15 | 1227:55 | 65 | 100 | | | 2 | | |
| 2151 | 57 | 81/02/26 | 1238:30 | 1238:50 | 65 | 97 | | | 2 | | |

ORIGINAL PEAKS OF POOR QUALITY

58

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2152 | 57 | 81/02/26 | 1404:40 | 1405:10 | 65 | 76 | | | 2 | | |
| 2153 | 57 | 81/02/26 | 1423:10 | 1425:55 | 497 | 22521 | 9.58E+05 | | 15 | 79, 6 | M |
| 2154 | 57 | 81/02/26 | 1830:20 | 1847:05 | 2810 | 384 | 1.10E+05 | | 10 | 79, 7 | |
| 2155 | 57 | 81/02/26 | 1920:15 | 1921:25 | 91 | 200 | 4090 | | 5 | 79, 7 | |
| 2156 | 57 | 81/02/26 | 1922:25 | 1923:00 | 227 | 606 | 19379 | | 10 | 79, 7 | |
| 2157 | 57 | 81/02/26 | 1930:05 | 1932:05 | 192 | 3728 | 78299 | | 10 | 79, 7 | M |
| 2158 | 57 | 81/02/26 | 2006:05 | 2009:15 | 1964 | 215 | 58114 | | 2 | 79, 7 | SN |
| 2159 | 57 | 81/02/26 | 2151:25 | 2151:50 | 50 | 84 | | | 2 | | |
| 2160 | 57 | 81/02/26 | 2157:20 | 2157:40 | 45 | 62 | | | 2 | | |
| 2161 | 57 | 81/02/26 | 2228:05 | 2228:15 | 37 | 128 | 899 | | 2 | 79, 8 | |
| 2162 | 57 | 81/02/26 | 2327:40 | 2328:00 | 95 | 435 | 11519 | | 10 | 79, 9 | |
| 2163 | 57 | 81/02/26 | 2331:30 | 2332:55 | 141 | 817 | 24594 | | 10 | 79, 9 | M |
| 2164 | 58 | 81/02/27 | 0112:50 | 0114:15 | 135 | 105 | 2163 | | 2 | 79, 11 | |
| 2165 | 58 | 81/02/27 | 0133:25 | 0135:10 | 214 | 1230 | 32854 | | 10 | 79, 12 | |
| 5857 | 58 | 81/02/27 | 0456:33 | 0456:59 | 97 | 79 | | | 2 | | I |
| 2166 | 58 | 81/02/27 | 0728:30 | 0728:45 | 30 | 68 | | | 2 | | |
| 2167 | 58 | 81/02/27 | 1240:15 | 1240:35 | 70 | 66 | | | 2 | | |
| 2168 | 58 | 81/02/27 | 1533:35 | 1534:40 | 121 | 108 | 3226 | | 5 | 79, 13 | |
| 2169 | 58 | 81/02/27 | 1547:00 | 1547:05 | 15 | 70 | | | 2 | | |
| 2170 | 58 | 81/02/27 | 1711:55 | 1712:35 | 70 | 81 | | | 5 | | |
| 2171 | 58 | 81/02/27 | 2020:35 | 2023:20 | 422 | 60 | 2180 | | 2 | 79, 14 | |
| 2172 | 58 | 81/02/27 | 2312:35 | 2315:10 | 1206 | 114 | 24778 | | 2 | 79, 15 | |
| 2173 | 59 | 81/02/28 | 0440:00 | 0440:20 | 35 | 97 | | | 2 | | |
| 2174 | 59 | 81/02/28 | 0629:35 | 0630:20 | 85 | 94 | | | 2 | | |
| 2175 | 59 | 81/02/28 | 0903:55 | 0904:10 | 40 | 80 | | | 2 | | |
| 2176 | 59 | 81/02/28 | 1204:20 | 1204:40 | 52 | 327 | | | 5 | 79, 16 | |
| 2177 | 59 | 81/02/28 | 1850:55 | 1851:25 | 105 | 66 | | | 2 | | |
| 2178 | 60 | 81/03/01 | 0059:40 | 0100:15 | 110 | 75 | | | 2 | | |
| * 5393 | 60 | 81/03/01 | 1235:29 | 1235:31 | 9 | 277 | 573 | | 15 | 173, 5 | I |
| 2179 | 61 | 81/03/02 | 0046:15 | 0047:15 | 210 | 126 | 2453 | | 2 | 80, 1 | |
| 2180 | 61 | 81/03/02 | 0450:50 | 0451:00 | 30 | 61 | | | 2 | | |
| 2181 | 61 | 81/03/02 | 1230:20 | 1231:30 | 140 | 77 | | | 2 | | |
| 2182 | 61 | 81/03/02 | 1325:10 | 1326:50 | 160 | 145 | 4221 | | 2 | 80, 2 | M |
| 2183 | 61 | 81/03/02 | 1334:20 | 1334:25 | 10 | 71 | | | 5 | | |
| 2184 | 61 | 81/03/02 | 1518:35 | 1519:30 | 195 | 81 | | | 5 | | |
| 2185 | 61 | 81/03/02 | 1842:00 | 1849:25 | 605 | 100 | 9799 | | 2 | 80, 4 | |
| 2186 | 61 | 81/03/02 | 2300:30 | 2300:45 | 30 | 84 | | | 2 | | |
| 2187 | 62 | 81/03/03 | 0656:25 | 0701:30 | 1364 | 133 | 40977 | | 2 | 80, 5 | SN |
| 5860 | 62 | 81/03/03 | 1511:17 | 1511:39 | 41 | 74 | | | 3 | | I |
| 2188 | 63 | 81/03/04 | 0117:20 | 0118:45 | 115 | 115 | 1492 | | 2 | 80, 6 | |
| 2189 | 63 | 81/03/04 | 0400:20 | 0400:25 | 20 | 88 | | | 2 | | |
| 2190 | 63 | 81/03/04 | 1320:00 | 1320:10 | 25 | 80 | | | 2 | | |
| 5861 | 64 | 81/03/05 | 0423:35 | 0424:09 | 157 | 159 | 3967 | | 2 | 186, 1 | I |
| 5862 | 64 | 81/03/05 | 0431:11 | 0431:42 | 252 | 70 | 9818 | | 2 | 186, 1 | I |
| 5863 | 64 | 81/03/05 | 0709:31 | 0711:25 | 820 | 617 | 54590 | | 4 | 186, 2 | I |
| 2191 | 64 | 81/03/05 | 1623:55 | 1630:55 | 1261 | 586 | 1.55E+05 | | 10 | 80, 7 | AX |
| 2192 | 65 | 81/03/06 | 0203:45 | 0205:25 | 238 | 783 | 37239 | | 5 | 80, 8 | M |
| 2193 | 65 | 81/03/06 | 0235:15 | 0236:05 | 100 | 156 | 2322 | | 2 | 80, 8 | |
| 2194 | 65 | 81/03/06 | 0241:00 | 0245:20 | 517 | 814 | 88234 | | 3 | 80, 8 | |
| 2195 | 65 | 81/03/06 | 1328:45 | 1329:05 | 45 | 71 | | | 2 | | |
| 2196 | 66 | 81/03/07 | 0156:35 | 0157:10 | 50 | 101 | | | 2 | | |
| 5865 | 66 | 81/03/07 | 1020:13 | 1020:55 | 67 | 65 | | | 2 | | I |
| 2197 | 66 | 81/03/07 | 2248:25 | 2248:40 | 65 | 157 | 1805 | | 2 | 80, 9 | |

ORIGINAL PAGE IS
OF POOR QUALITY

59

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2198 | 67 | 81/03/08 | 0158:15 | 0158:50 | 75 | 80 | | | 2 | | |
| 2199 | 67 | 81/03/08 | 0208:20 | 0209:40 | 130 | 84 | | | 2 | | |
| 2200 | 67 | 81/03/08 | 0838:15 | 0838:35 | 60 | 77 | | | 2 | | |
| 2201 | 67 | 81/03/08 | 2116:30 | 2117:35 | 270 | 75 | | | 2 | | |
| 5866 | 67 | 81/03/08 | 2116:41 | 2117:29 | 174 | 73 | | | 2 | | I |
| 2202 | 68 | 81/03/09 | 0642:10 | 0642:15 | 18 | 108 | 280 | | 2 | 80, 10 | |
| * 2203 | 69 | 81/03/10 | 0020:35 | 0021:10 | 65 | 478 | 6228 | | 10 | 80, 11 | |
| * 2204 | 69 | 81/03/10 | 0313:00 | 0314:35 | 160 | 139 | 1920 | | 5 | | |
| * 2205 | 69 | 81/03/10 | 0622:05 | 0623:15 | 180 | 182 | | | 2 | | |
| * 2206 | 69 | 81/03/10 | 0831:30 | 0832:30 | 188 | 328 | 13826 | | 5 | 80, 12 | |
| * 2207 | 70 | 81/03/11 | 1143:15 | 1144:45 | 140 | 175 | | | 5 | | |
| * 2208 | 70 | 81/03/11 | 1150:10 | 1150:40 | 90 | 227 | 4197 | | 5 | 80, 13 | |
| * 2209 | 71 | 81/03/12 | 0134:55 | 0135:25 | 50 | 146 | | | 5 | | |
| * 2210 | 72 | 81/03/13 | 2057:55 | 2058:50 | 120 | 50 | | | 2 | | |
| * 2211 | 73 | 81/03/14 | 1042:25 | 1042:35 | 165 | 70 | | | 2 | | |
| * 2212 | 74 | 81/03/15 | 2347:55 | 2348:20 | 60 | 51 | | | 2 | | |
| * 2213 | 76 | 81/03/17 | 0805:22 | 0805:25 | 9 | 202 | 462 | | 15 | 80, 14 | AX |
| * 2214 | 78 | 81/03/19 | 0919:45 | 0920:00 | 30 | 178 | | | 5 | 80, 15 | |
| * 2215 | 78 | 81/03/19 | 1238:45 | 1239:15 | 60 | 61 | | | 2 | | |
| * 2216 | 78 | 81/03/19 | 1330:45 | 1331:10 | 80 | 143 | 2118 | | 2 | 80, 16 | |
| * 2217 | 79 | 81/03/20 | 0536:55 | 0537:15 | 85 | 50 | | | 2 | | |
| * 2218 | 79 | 81/03/20 | 1955:45 | 1956:45 | 75 | 67 | | | 2 | | |
| * 2219 | 80 | 81/03/21 | 0029:37 | 0029:45 | 28 | 142 | 982 | | 2 | 81, 1 | |
| * 2220 | 80 | 81/03/21 | 0239:25 | 0241:35 | 180 | 65 | | | 2 | | |
| * 2221 | 80 | 81/03/21 | 0344:00 | 0344:15 | 75 | 353 | 4498 | | 5 | 81, 2 | |
| * 2222 | 80 | 81/03/21 | 2141:15 | 2142:15 | 130 | 170 | 4109 | | 2 | 81, 3 | |
| * 2223 | 81 | 81/03/22 | 0044:05 | 0044:30 | 47 | 885 | 112 | | 2 | 81, 4 | |
| * 2224 | 81 | 81/03/22 | 0204:20 | 0204:35 | 77 | 107 | 725 | | 2 | 81, 5 | |
| * 2225 | 81 | 81/03/22 | 0606:20 | 0606:50 | 55 | 86 | | | 2 | | |
| * 2226 | 81 | 81/03/22 | 0858:05 | 0858:10 | 37 | 168 | 820 | | 2 | 81, 6 | |
| * 2227 | 81 | 81/03/22 | 1222:25 | 1222:45 | 67 | 353 | 3902 | | 5 | 81, 7 | |
| * 2228 | 81 | 81/03/22 | 1930:20 | 1930:35 | 30 | 59 | | | 2 | 81, 8 | |
| * 2229 | 81 | 81/03/22 | 1931:20 | 1931:30 | 35 | 243 | 1352 | | 2 | 81, 8 | |
| * 2230 | 81 | 81/03/22 | 1949:10 | 1952:15 | 260 | 183 | 9493 | | 5 | 81, 9 | |
| 5884 | 81 | 81/03/22 | 2143:47 | 2144:14 | 90 | 791 | 10044 | | 4 | 186, 13 | I |
| * 2231 | 81 | 81/03/22 | 2200:20 | 2200:35 | 42 | 1283 | 9256 | | 5 | 81, 10 | M |
| * 2232 | 81 | 81/03/22 | 2202:00 | 2202:35 | 85 | 199 | 2173 | | 5 | 81, 10 | M |
| * 2233 | 81 | 81/03/22 | 2306:10 | 2306:35 | 70 | 148 | 1733 | | 5 | 81, 11 | |
| * 2234 | 82 | 81/03/23 | 0644:55 | 0646:30 | 150 | 199 | 5693 | | 5 | 81, 12 | |
| * 2235 | 82 | 81/03/23 | 0653:00 | 0656:00 | 294 | 2175 | 1.11E+05 | | 10 | 81, 12 | M |
| * 2236 | 82 | 81/03/23 | 0659:35 | 0700:00 | 685 | 553 | 4684 | | 15 | 81, 12 | |
| * 2237 | 82 | 81/03/23 | 0731:40 | 0732:15 | 150 | 67 | | | 2 | | |
| * 2238 | 82 | 81/03/23 | 1024:00 | 1025:15 | 110 | 85 | | | 5 | | |
| * 2239 | 82 | 81/03/23 | 1123:35 | 1128:05 | 360 | 74 | 5101 | | 2 | 81, 13 | |
| * 2240 | 82 | 81/03/23 | 1204:10 | 1204:20 | 483 | 4160 | 91498 | | 10 | 81, 14 | |
| 2241 | 82 | 81/03/23 | 1925:30 | 1929:40 | 573 | 81 | 7106 | | 2 | 81, 15 | |
| 2242 | 82 | 81/03/23 | 2114:05 | 2115:40 | 370 | 294 | 23569 | | 5 | 81, 16 | |
| 2243 | 82 | 81/03/23 | 2300:25 | 2300:55 | 35 | 82 | | | 2 | | |
| 2244 | 83 | 81/03/24 | 0154:55 | 0157:10 | 850 | 894 | 82671 | | 5 | 82, 1 | M |
| 2245 | 83 | 81/03/24 | 0717:30 | 0717:45 | 105 | 90 | | | 2 | 82, 3 | |
| 2246 | 83 | 81/03/24 | 0719:30 | 0719:45 | 550 | 253 | 4614 | | 5 | 82, 3 | |
| 2247 | 83 | 81/03/24 | 0837:50 | 0838:05 | 45 | 63 | | | 2 | | |
| 2248 | 83 | 81/03/24 | 1209:55 | 1210:30 | 185 | 70 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 2249 | 84 | 81/03/25 | 0056:40 | 0057:10 | 150 | 87 | | | 2 | | |
| 2250 | 84 | 81/03/25 | 0202:00 | 0202:05 | 80 | 82 | | | 2 | | |
| 2251 | 84 | 81/03/25 | 0204:30 | 0205:10 | 100 | 83 | | | 2 | | |
| 2252 | 84 | 81/03/25 | 0505:50 | 0506:50 | 159 | 230 | 10752 | | 2 | 82, 4 | |
| 2253 | 84 | 81/03/25 | 0524:05 | 0525:10 | 173 | 115 | 4302 | | 2 | 82, 5 | |
| 2254 | 84 | 81/03/25 | 0844:40 | 0845:25 | 160 | 60 | | | 2 | | |
| 2255 | 84 | 81/03/25 | 0936:50 | 0937:10 | 60 | 97 | | | 2 | | ES |
| 2256 | 84 | 81/03/25 | 1025:40 | 1026:20 | 65 | 67 | | | 2 | | |
| 2257 | 84 | 81/03/25 | 1612:10 | 1612:25 | 105 | 94 | | | 2 | | |
| 2258 | 84 | 81/03/25 | 1921:10 | 1921:50 | 85 | 67 | | | 2 | | |
| 2259 | 84 | 81/03/25 | 2046:00 | 2046:40 | 1796 | 3271 | 6.97E+06 | | 5 | 82, 6 | SN |
| 2260 | 84 | 81/03/25 | 2239:40 | 2240:00 | 50 | 83 | | | 2 | | |
| 2261 | 85 | 81/03/26 | 0232:00 | 0232:25 | 45 | 57 | | | 2 | | |
| 6299 | 85 | 81/03/26 | 2133:30 | 2134:02 | 104 | 101 | | | 2 | | I |
| 2262 | 86 | 81/03/27 | 0009:05 | 0011:35 | 1466 | 99 | 23863 | | 2 | 82, 7 | |
| 2263 | 86 | 81/03/27 | 0156:45 | 0158:50 | 333 | 101 | 4536 | | 2 | 82, 8 | |
| 2264 | 86 | 81/03/27 | 2052:30 | 2053:10 | 135 | 56 | | | 2 | | |
| 2265 | 87 | 81/03/28 | 0004:25 | 0005:05 | 105 | 98 | | | 5 | | |
| 2266 | 87 | 81/03/28 | 1506:20 | 1506:55 | 55 | 109 | 1113 | | 2 | 82, 9 | |
| 2267 | 87 | 81/03/28 | 1556:55 | 1557:20 | 40 | 92 | | | 2 | | |
| 2268 | 87 | 81/03/28 | 1720:00 | 1720:15 | 35 | 74 | | | 2 | | |
| 2269 | 87 | 81/03/28 | 1909:15 | 1909:40 | 40 | 90 | | | 2 | | |
| 2270 | 87 | 81/03/28 | 1927:45 | 1928:20 | 65 | 71 | | | 2 | | |
| 2271 | 87 | 81/03/28 | 1931:10 | 1932:10 | 160 | 191 | 4832 | | 2 | 82, 10 | |
| 2272 | 87 | 81/03/28 | 2119:30 | 2120:10 | 60 | 77 | | | 2 | | |
| 2273 | 88 | 81/03/29 | 1632:05 | 1632:50 | 160 | 96 | | | 2 | | |
| 2274 | 88 | 81/03/29 | 2208:10 | 2209:25 | 195 | 73 | | | 2 | | |
| 2275 | 88 | 81/03/29 | 2244:35 | 2244:50 | 30 | 81 | | | 2 | | |
| 2276 | 88 | 81/03/29 | 2349:50 | 2350:30 | 155 | 79 | | | 2 | | |
| 2277 | 89 | 81/03/30 | 0009:55 | 0021:45 | 1507 | 496 | 2.25E+05 | | 10 | 82, 11 | M, EN |
| 2278 | 89 | 81/03/30 | 0311:50 | 0313:00 | 145 | 70 | | | 2 | | |
| 2279 | 89 | 81/03/30 | 0653:20 | 0654:25 | 185 | 75 | | | 2 | | |
| 2280 | 89 | 81/03/30 | 2155:30 | 2200:00 | 915 | 244 | 31987 | | 10 | 82, 12 | |
| 2281 | 89 | 81/03/30 | 2226:05 | 2226:20 | 39 | 156 | 969 | | 2 | 82, 13 | |
| 2282 | 90 | 81/03/31 | 0425:55 | 0425:55 | 193 | 135 | 2880 | | 5 | 82, 14 | SA |
| 2283 | 90 | 81/03/31 | 0436:45 | 0436:45 | 145 | 63 | | | 2 | | |
| 2284 | 90 | 81/03/31 | 0442:40 | 0443:25 | 160 | 73 | | | 2 | | |
| 2285 | 90 | 81/03/31 | 0446:55 | 0447:20 | 40 | 68 | | | 2 | | |
| 2286 | 90 | 81/03/31 | 0640:25 | 0640:50 | 75 | 76 | | | 2 | | |
| 2287 | 90 | 81/03/31 | 1300:55 | 1301:55 | 164 | 1905 | 25782 | | 10 | 82, 15 | M |
| 2288 | 90 | 81/03/31 | 1528:20 | 1528:50 | 140 | 66 | | | 2 | | |
| 2289 | 90 | 81/03/31 | 1607:50 | 1608:25 | 65 | 74 | | | 2 | | |
| 2290 | 90 | 81/03/31 | 2052:40 | 2053:00 | 125 | 68 | | | 2 | | |
| 2291 | 90 | 81/03/31 | 2149:35 | 2150:15 | 75 | 285 | 6499 | | 5 | 82, 16 | |
| 2292 | 90 | 81/03/31 | 2233:45 | 2234:40 | 155 | 75 | | | 5 | | |
| 2293 | 91 | 81/04/01 | 0105:40 | 0146:04 | 3140 | 12460 | 7.20E+06 | | 14 | 83, 1 | EN |
| 2294 | 91 | 81/04/01 | 1242:57 | 1244:39 | 180 | 85 | | | 2 | | |
| 2295 | 91 | 81/04/01 | 1348:45 | 1418:50 | 3330 | 205 | 81263 | | 7 | 83, 2 | M, EN, IS |
| 2296 | 91 | 81/04/01 | 2004:05 | 2004:55 | 95 | 62 | | | 2 | | |
| 2297 | 91 | 81/04/01 | 2143:25 | 2143:55 | 286 | 136 | 8348 | | 5 | 83, 3 | AX |
| 2298 | 92 | 81/04/02 | 0805:15 | 0805:30 | 25 | 85 | | | 2 | | |
| 2299 | 92 | 81/04/02 | 1059:05 | 1106:40 | 985 | 14865 | 2.55E+06 | | 12 | 83, 4 | M |
| 2300 | 92 | 81/04/02 | 1420:15 | 1421:25 | 96 | 119 | 1372 | | 2 | 83, 5 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 2301 | 93 | 81/04/03 | 0126:00 | 0127:00 | 227 | 126 | 3404 | | 2 | 83, 6 | |
| 2302 | 93 | 81/04/03 | 0755:10 | 0755:40 | 60 | 64 | | | 2 | | |
| 2303 | 93 | 81/04/03 | 0911:35 | 0919:25 | 1895 | 371 | 91207 | | 5 | 83, 7 | EN |
| 2304 | 93 | 81/04/03 | 1640:55 | 1648:40 | 715 | 84 | 5515 | | 2 | 83, 8 | |
| 2305 | 93 | 81/04/03 | 1659:10 | 1659:25 | 145 | 69 | | | 2 | | |
| 2306 | 93 | 81/04/03 | 1832:30 | 1839:40 | 1135 | 204 | 23967 | | 10 | 83, 9 | |
| 2307 | 93 | 81/04/03 | 2021:20 | 2021:45 | 136 | 147 | 5843 | | 2 | 83, 10 | |
| 2308 | 93 | 81/04/03 | 2040:50 | 2041:15 | 195 | 98 | | | 2 | | |
| 2309 | 93 | 81/04/03 | 2323:55 | 2331:45 | 2250 | 85 | 22619 | | 2 | 83, 11 | |
| 2310 | 94 | 81/04/04 | 0223:40 | 0225:40 | 157 | 190 | 2565 | | 2 | 83, 12 | |
| 2311 | 94 | 81/04/04 | 0228:30 | 0231:40 | 296 | 377 | 12001 | | 5 | 83, 12 | |
| 2312 | 94 | 81/04/04 | 0244:55 | 0245:20 | 65 | 96 | | | 2 | | |
| 2313 | 94 | 81/04/04 | 0622:50 | 0623:30 | 120 | 59 | | | 2 | | |
| 2314 | 94 | 81/04/04 | 1643:50 | 1645:05 | 171 | 208 | 6804 | | 2 | 83, 13 | |
| 2315 | 94 | 81/04/04 | 1946:55 | 1947:00 | 180 | 91 | | | 2 | | SN |
| 2316 | 94 | 81/04/04 | 2122:00 | 2123:40 | 563 | 308 | 1.10E+05 | | 5 | 83, 14 | |
| 2317 | 94 | 81/04/04 | 2159:15 | 2203:00 | 672 | 236 | 24995 | | 5 | 83, 15 | |
| 2318 | 94 | 81/04/04 | 2311:00 | 2312:50 | 248 | 106 | 3406 | | 2 | 83, 16 | |
| 2319 | 94 | 81/04/04 | 2345:25 | 2346:55 | 210 | 70 | | | 2 | | |
| 2320 | 95 | 81/04/05 | 0032:15 | 0056:40 | 1705 | 88 | 17225 | | 2 | 84, 1 | |
| 2321 | 95 | 81/04/05 | 0256:10 | 0256:10 | 26 | 320 | 1194 | | 5 | 84, 2 | SG, DG |
| 2322 | 95 | 81/04/05 | 1415:15 | 1415:50 | 65 | 70 | | | 2 | | |
| 2323 | 95 | 81/04/05 | 1803:55 | 1804:30 | 195 | 56 | | | 2 | | |
| 2324 | 95 | 81/04/05 | 1853:20 | 1854:15 | 90 | 69 | | | 2 | | |
| 2325 | 95 | 81/04/05 | 1857:25 | 1901:00 | 327 | 85 | 7692 | | 2 | 84, 3 | |
| 2326 | 95 | 81/04/05 | 2116:10 | 2117:30 | 290 | 81 | 4956 | | 5 | 84, 4 | |
| 2327 | 95 | 81/04/05 | 2140:35 | 2142:30 | 195 | 84 | | | 2 | | |
| 2328 | 95 | 81/04/05 | 2145:55 | 2146:35 | 65 | 58 | | | 2 | | |
| 2329 | 96 | 81/04/06 | 0706:15 | 0708:45 | 195 | 52 | | | 2 | | |
| 2330 | 96 | 81/04/06 | 0710:20 | 0712:35 | 160 | 51 | | | 2 | | |
| 2331 | 96 | 81/04/06 | 0723:35 | 0724:35 | 149 | 114 | 2015 | | 2 | 84, 5 | |
| 2332 | 96 | 81/04/06 | 0848:30 | 0853:45 | 480 | 89 | 4994 | | 2 | | |
| 2333 | 96 | 81/04/06 | 2202:30 | 2203:40 | 190 | 64 | | | 2 | | |
| 2334 | 96 | 81/04/06 | 2323:15 | 2323:25 | 45 | 59 | | | 2 | | |
| 2335 | 97 | 81/04/07 | 0103:15 | 0103:45 | 98 | 746 | 20953 | | 5 | 84, 6 | M |
| 2336 | 97 | 81/04/07 | 0115:10 | 0118:25 | 234 | 968 | 67952 | | 5 | 84, 6 | EN |
| 2337 | 97 | 81/04/07 | 0422:30 | 0426:30 | 461 | 160 | 15815 | | 2 | 84, 7 | M, EN |
| 2338 | 97 | 81/04/07 | 1825:45 | 1826:30 | 89 | 297 | 3577 | | 5 | 84, 8 | |
| 2339 | 97 | 81/04/07 | 1834:10 | 1836:20 | 559 | 110 | 13171 | | 2 | 84, 8 | |
| 2340 | 97 | 81/04/07 | 1952:15 | 1953:10 | 165 | 85 | | | 2 | | |
| 2341 | 97 | 81/04/07 | 2012:50 | 2013:25 | 50 | 96 | | | 2 | 84, 9 | |
| 2342 | 97 | 81/04/07 | 2015:00 | 2015:30 | 118 | 166 | 1800 | | 2 | 84, 9 | |
| 2343 | 98 | 81/04/08 | 0041:10 | 0044:40 | 258 | 852 | 12568 | | 5 | 84, 10 | |
| 2344 | 98 | 81/04/08 | 0541:35 | 0543:15 | 154 | 166 | 2581 | | 2 | 84, 11 | M |
| 2345 | 98 | 81/04/08 | 0841:50 | 0843:30 | 152 | 153 | 3839 | | 2 | 84, 12 | |
| 2346 | 98 | 81/04/08 | 1026:40 | 1028:00 | 118 | 365 | 2906 | | 5 | 84, 13 | |
| 2347 | 98 | 81/04/08 | 1258:00 | 1259:10 | 109 | 1208 | 13661 | | 10 | 84, 14 | SN |
| 2348 | 98 | 81/04/08 | 1624:10 | 1637:00 | 2644 | 417 | 2.32E+05 | | 5 | 84, 15 | M |
| 2349 | 98 | 81/04/08 | 1759:45 | 1804:45 | 1098 | 88 | 7133 | | 2 | 84, 16 | |
| 2350 | 98 | 81/04/08 | 1836:20 | 1836:40 | 65 | 95 | | | 2 | | |
| 2351 | 98 | 81/04/08 | 1926:55 | 1927:35 | 75 | 63 | | | 2 | | |
| 2352 | 98 | 81/04/08 | 1956:45 | 2005:10 | 555 | 71 | 2732 | | 2 | 85, 1 | |
| 2353 | 98 | 81/04/08 | 2238:25 | 2238:45 | 34 | 286 | 2392 | | 5 | 85, 2 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 2354 | 98 | 81/04/08 | 2317:45 | 2319:30 | 99 | 190 | | | 2 | | |
| 2355 | 98 | 81/04/08 | 2328:15 | 2328:50 | 140 | 174 | 8482 | | 2 | 85, 1 | |
| 2356 | 99 | 81/04/09 | 0353:35 | 0354:00 | 110 | 89 | | | 2 | | |
| 2357 | 99 | 81/04/09 | 0359:40 | 0400:05 | 40 | 76 | | | 2 | | |
| 2358 | 99 | 81/04/09 | 1004:45 | 1005:45 | 70 | 98 | | | 2 | | |
| 2359 | 99 | 81/04/09 | 1322:10 | 1322:20 | 25 | 73 | | | 2 | | |
| 2360 | 99 | 81/04/09 | 1443:40 | 1445:10 | 197 | 85 | | | 2 | | |
| 2361 | 99 | 81/04/09 | 1650:45 | 1650:55 | 60 | 72 | | | 2 | | |
| 2362 | 99 | 81/04/09 | 1655:45 | 1700:10 | 360 | 333 | 44367 | | 2 | 85, 4 | |
| 2363 | 99 | 81/04/09 | 1821:55 | 1832:20 | 913 | 355 | 65353 | | 10 | 85, 5 | M |
| 2364 | 99 | 81/04/09 | 2118:55 | 2121:00 | 195 | 60 | | | 2 | | |
| 2365 | 99 | 81/04/09 | 2145:00 | 2147:35 | 190 | 67 | | | 2 | | |
| 2366 | 99 | 81/04/09 | 2255:45 | 2257:45 | 160 | 54 | | | 2 | | |
| 2367 | 100 | 81/04/10 | 0346:15 | 0346:30 | 20 | 71 | | | 2 | | |
| 2368 | 100 | 81/04/10 | 0515:35 | 0517:05 | 185 | 105 | 3213 | | 2 | 85, 6 | |
| 2369 | 100 | 81/04/10 | 0527:40 | 0532:15 | 820 | 79 | 3828 | | 2 | 85, 7 | |
| 2370 | 100 | 81/04/10 | 0656:30 | 0657:10 | 74 | 149 | 1501 | | 5 | 85, 8 | |
| 2371 | 100 | 81/04/10 | 1108:50 | 1109:15 | 1825 | 2098 | 1.20E+05 | | 5 | 85, 9 | SN, ES |
| 2372 | 100 | 81/04/10 | 1459:10 | 1500:20 | 150 | 91 | | | 2 | | |
| 2373 | 100 | 81/04/10 | 1633:40 | 1651:15 | 1360 | 11879 | 3.63E+06 | | 15 | 85, 10 | M |
| 2374 | 100 | 81/04/10 | 1730:40 | 1739:55 | 1390 | 98 | 12018 | | 5 | 85, 11 | |
| 2375 | 100 | 81/04/10 | 1824:30 | 1825:30 | 382 | 1221 | 49531 | | 10 | 85, 12 | |
| 2376 | 100 | 81/04/10 | 1906:40 | 1912:10 | 1555 | 161 | 26980 | | 2 | 85, 13 | |
| 2377 | 100 | 81/04/10 | 2226:55 | 2227:05 | 25 | 84 | | | 2 | | |
| 2378 | 100 | 81/04/10 | 2255:30 | 2256:35 | 150 | 810 | 13604 | | 5 | 85, 14 | M |
| 2379 | 101 | 81/04/11 | 0030:15 | 0031:15 | 290 | 120 | 3181 | | 2 | 85, 16 | |
| 2380 | 101 | 81/04/11 | 0456:45 | 0500:50 | 695 | 81 | 5359 | | 2 | 86, 1 | |
| 2381 | 101 | 81/04/11 | 0537:40 | 0538:25 | 120 | 74 | | | 2 | | |
| 2382 | 101 | 81/04/11 | 0828:10 | 0829:10 | 125 | 97 | | | 2 | | |
| 2383 | 101 | 81/04/11 | 0950:55 | 0951:25 | 63 | 120 | 1050 | | 2 | 86, 2 | |
| 2384 | 101 | 81/04/11 | 1009:20 | 1009:30 | 20 | 72 | | | 2 | | |
| 2385 | 101 | 81/04/11 | 1014:40 | 1017:35 | 355 | 432 | 9740 | | 5 | 86, 3 | |
| 2386 | 101 | 81/04/11 | 1150:55 | 1151:30 | 55 | 93 | | | 2 | | |
| 2387 | 101 | 81/04/11 | 1302:15 | 1302:40 | 40 | 260 | 1964 | | 5 | 86, 4 | |
| 2388 | 101 | 81/04/11 | 1302:55 | 1303:15 | 53 | 212 | 1744 | | 2 | 86, 4 | |
| 2389 | 101 | 81/04/11 | 1303:45 | 1304:20 | 80 | 97 | | | 2 | 86, 4 | |
| 2390 | 101 | 81/04/11 | 1333:25 | 1334:55 | 261 | 378 | 16303 | | 5 | 86, 5 | |
| 2391 | 101 | 81/04/11 | 1629:40 | 1630:15 | 55 | 82 | | | 2 | | |
| 2392 | 101 | 81/04/11 | 1644:15 | 1644:40 | 138 | 69 | | | 2 | 86, 6 | |
| 2393 | 101 | 81/04/11 | 2033:23 | 2033:47 | 73 | 91 | | | 5 | | I |
| 2394 | 101 | 81/04/11 | 2259:45 | 2300:15 | 120 | 60 | | | 2 | | |
| 2395 | 101 | 81/04/11 | 2302:40 | 2303:00 | 150 | 76 | | | 2 | | |
| 2396 | 101 | 81/04/11 | 2349:55 | 2351:15 | 150 | 75 | | | 2 | | |
| 2397 | 102 | 81/04/12 | 0000:15 | 0001:10 | 209 | 280 | 11417 | | 2 | 86, 7 | |
| 2398 | 102 | 81/04/12 | 0009:05 | 0009:25 | 85 | 80 | | | 2 | | |
| 2399 | 102 | 81/04/12 | 0128:00 | 0128:05 | 17 | 102 | | | 2 | 86, 8 | |
| 2400 | 102 | 81/04/12 | 0131:10 | 0134:40 | 398 | 1043 | 46990 | | 5 | 86, 8 | |
| 2401 | 102 | 81/04/12 | 0143:40 | 0147:50 | 313 | 259 | 5382 | | 5 | 86, 9 | |
| 2402 | 102 | 81/04/12 | 0155:20 | 0155:55 | 60 | 77 | | | 2 | | |
| 2403 | 102 | 81/04/12 | 0157:20 | 0157:50 | 125 | 72 | | | 2 | | |
| 2404 | 102 | 81/04/12 | 0206:10 | 0207:20 | 145 | 99 | | | 2 | | |
| 2405 | 102 | 81/04/12 | 0303:15 | 0305:40 | 290 | 152 | 3507 | | 2 | 86, 10 | SN |
| 2406 | 102 | 81/04/12 | 0310:20 | 0311:00 | 208 | 219 | 6880 | | 2 | 86, 10 | |

ORIGINAL PAGE IS
OF POOR QUALITY

63

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2406 | 102 | 81/04/12 | 0314:10 | 0314:40 | 120 | 822 | 12984 | | 5 | 86, 10 | |
| 2407 | 102 | 81/04/12 | 0649:35 | 0651:05 | 150 | 81 | | | 2 | | |
| 6306 | 102 | 81/04/12 | 0830:43 | 0830:56 | 67 | 60 | | | 2 | | I |
| 6307 | 102 | 81/04/12 | 0835:48 | 0835:57 | 75 | 63 | | | 2 | | I |
| 6308 | 102 | 81/04/12 | 1016:26 | 1016:49 | 93 | 55 | | | 2 | | I |
| 2408 | 102 | 81/04/12 | 1242:05 | 1246:35 | 506 | 182 | 18732 | | 2 | 86, 11 | |
| 2409 | 102 | 81/04/12 | 1307:40 | 1307:50 | 25 | 71 | | | 2 | | |
| 2410 | 102 | 81/04/12 | 1450:20 | 1450:55 | 120 | 65 | | | 2 | | |
| 2411 | 102 | 81/04/12 | 1602:30 | 1606:45 | 330 | 1193 | | | 10 | 86, 12 | |
| 6310 | 102 | 81/04/12 | 1730:42 | 1731:26 | 88 | 60 | | | 2 | | I |
| 6311 | 102 | 81/04/12 | 1810:21 | 1810:57 | 76 | 73 | | | 2 | | I |
| 6312 | 102 | 81/04/12 | 1814:16 | 1814:41 | 62 | 50 | | | 2 | | I |
| 6313 | 102 | 81/04/12 | 1944:32 | 1945:07 | 523 | 62 | 4591 | | 2 | 196, 1 | I |
| 6314 | 102 | 81/04/12 | 2104:00 | 2107:03 | 871 | 69 | 7170 | | 3 | 196, 2 | I |
| 2412 | 102 | 81/04/12 | 2215:15 | 2216:20 | 135 | 78 | | | 2 | | |
| 2413 | 102 | 81/04/12 | 2226:30 | 2227:25 | 362 | 1164 | 59087 | | 10 | 86, 14 | M |
| 2414 | 102 | 81/04/12 | 2303:15 | 2304:10 | 65 | 90 | | | 2 | | |
| 2415 | 103 | 81/04/13 | 0202:20 | 0202:40 | 65 | 106 | 1566 | | 2 | 86, 16 | |
| 2416 | 103 | 81/04/13 | 0207:55 | 0208:10 | 73 | 104 | 1962 | | 2 | 86, 16 | |
| 6316 | 103 | 81/04/13 | 0329:08 | 0338:41 | 961 | 82 | 10389 | | 3 | 196, 3 | I |
| 6318 | 103 | 81/04/13 | 0636:59 | 0637:15 | 30 | 67 | | | 2 | | I |
| 2417 | 103 | 81/04/13 | 0754:50 | 0755:45 | 175 | 66 | | | 2 | | |
| 6319 | 103 | 81/04/13 | 0755:13 | 0755:47 | 100 | 65 | | | 2 | | I |
| 6320 | 103 | 81/04/13 | 0928:55 | 0929:25 | 44 | 57 | | | 2 | | I |
| 6321 | 103 | 81/04/13 | 0930:10 | 0930:44 | 137 | 99 | | | 2 | | I |
| 6322 | 103 | 81/04/13 | 0934:40 | 0934:52 | 39 | 68 | | | 2 | | I |
| 6323 | 103 | 81/04/13 | 0938:25 | 0938:35 | 42 | 66 | | | 2 | | I |
| 6324 | 103 | 81/04/13 | 0951:23 | 0951:54 | 117 | 107 | 1619 | | 2 | 196, 4 | I |
| 6325 | 103 | 81/04/13 | 0959:32 | 0959:39 | 18 | 75 | | | 2 | | I |
| 6326 | 103 | 81/04/13 | 1002:17 | 1002:35 | 38 | 66 | | | 2 | | I |
| 6327 | 103 | 81/04/13 | 1004:03 | 1004:23 | 40 | 77 | | | 2 | | I |
| 6328 | 103 | 81/04/13 | 1005:19 | 1008:20 | 494 | 211 | 7598 | | 3 | 196, 5 | M, I |
| 2418 | 103 | 81/04/13 | 1135:00 | 1135:20 | 45 | 62 | | | 2 | | |
| 6330 | 103 | 81/04/13 | 1226:00 | 1226:39 | 69 | 80 | | | 2 | | I |
| 6331 | 103 | 81/04/13 | 1242:42 | 1243:01 | 57 | 60 | | | 2 | | I |
| 6332 | 103 | 81/04/13 | 1259:40 | 1300:09 | 62 | 91 | | | 2 | | I |
| 6333 | 103 | 81/04/13 | 1309:12 | 1309:25 | 102 | 106 | 1248 | | 2 | 196, 6 | I |
| 2419 | 103 | 81/04/13 | 1427:05 | 1431:10 | 363 | 126 | 3681 | | 5 | 87, 1 | |
| 2420 | 103 | 81/04/13 | 1445:35 | 1445:50 | 70 | 78 | | | 3 | | |
| 2421 | 103 | 81/04/13 | 1729:15 | 1729:25 | 20 | 90 | | | 2 | | |
| 2422 | 104 | 81/04/14 | 0646:35 | 0646:50 | 40 | 68 | | | 2 | | |
| 6317 | 104 | 81/04/14 | 0920:54 | 0921:09 | 39 | 91 | | | 2 | | I |
| 6329 | 104 | 81/04/14 | 0948:57 | 0949:14 | 38 | 83 | | | 2 | | I |
| 2423 | 104 | 81/04/14 | 1240:00 | 1240:50 | 187 | 84 | | | 2 | | |
| 2424 | 104 | 81/04/14 | 1533:45 | 1537:45 | 333 | 95 | 1465 | | 2 | 87, 2 | |
| 2425 | 104 | 81/04/14 | 1753:40 | 1753:50 | 20 | 58 | | | 2 | | |
| 2426 | 104 | 81/04/14 | 1841:10 | 1842:10 | 150 | 63 | | | 2 | | |
| 2427 | 104 | 81/04/14 | 1848:40 | 1849:35 | 258 | 80 | 3933 | | 2 | 87, 3 | |
| 2428 | 104 | 81/04/14 | 1908:00 | 1910:10 | 165 | 59 | | | 2 | | |
| 2429 | 104 | 81/04/14 | 2035:15 | 2035:45 | 65 | 69 | | | 2 | | |
| 2430 | 104 | 81/04/14 | 2037:15 | 2039:35 | 135 | 58 | | | 3 | | |
| 2431 | 104 | 81/04/14 | 2042:20 | 2042:35 | 90 | 95 | | | 2 | | |
| 2432 | 104 | 81/04/14 | 2047:55 | 2050:25 | 264 | 749 | 11714 | | 9 | 87, 4 | |

ORIGINAL RECORD OF POOR QUALITY

64

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2433 | 104 | 81/04/14 | 2056:00 | 2058:40 | 252 | 87 | 4754 | | 6 | 87, 5 | |
| 2434 | 104 | 81/04/14 | 2216:35 | 2218:40 | 242 | 121 | 12707 | | 2 | 87, 6 | |
| 2435 | 104 | 81/04/14 | 2327:55 | 2340:00 | 3306 | 1794 | 7.67E+05 | | 12 | 87, 7 | M |
| 2436 | 105 | 81/04/15 | 0114:55 | 0116:10 | 215 | 100 | 3803 | | 2 | 87, 8 | |
| 2437 | 105 | 81/04/15 | 0325:25 | 0325:45 | 40 | 61 | | | 2 | | |
| 2438 | 105 | 81/04/15 | 0430:25 | 0430:50 | 75 | 71 | | | 2 | | |
| 2439 | 105 | 81/04/15 | 0559:55 | 0601:20 | 150 | 743 | 9044 | | 7 | 87, 9 | |
| 2440 | 105 | 81/04/15 | 0636:55 | 0638:40 | 180 | 90 | | | 2 | 87, 10 | |
| 2441 | 105 | 81/04/15 | 0641:25 | 0643:45 | 417 | 5290 | 1.27E+05 | | 10 | 87, 10 | |
| 2442 | 105 | 81/04/15 | 0805:10 | 0806:15 | 60 | 93 | | | 2 | | |
| 2443 | 105 | 81/04/15 | 1212:50 | 1213:35 | 124 | 104 | 1940 | | 2 | 87, 11 | |
| 2444 | 105 | 81/04/15 | 1233:00 | 1235:15 | 190 | 70 | | | 2 | | |
| 2445 | 105 | 81/04/15 | 1258:50 | 1259:15 | 36 | 240 | 1667 | | 4 | 87, 12 | |
| 2446 | 105 | 81/04/15 | 1303:45 | 1304:15 | 90 | 90 | | | 3 | | |
| 2447 | 105 | 81/04/15 | 1354:00 | 1354:30 | 60 | 62 | | | 2 | | |
| 2448 | 105 | 81/04/15 | 1522:40 | 1527:50 | 622 | 143 | 9522 | | 5 | 88, 1 | |
| 2449 | 105 | 81/04/15 | 1705:30 | 1707:45 | 420 | 406 | 13147 | | 7 | 88, 2 | |
| 2450 | 105 | 81/04/15 | 1856:10 | 1856:15 | 40 | 59 | | | 2 | | |
| 2451 | 105 | 81/04/15 | 1918:45 | 1919:25 | 83 | 478 | 4312 | | 11 | 88, 3 | |
| 2452 | 105 | 81/04/15 | 1923:00 | 1923:25 | 35 | 78 | | | 2 | | |
| 2453 | 105 | 81/04/15 | 2022:05 | 2022:20 | 35 | 64 | | | 2 | | |
| 2454 | 105 | 81/04/15 | 2331:20 | 2331:45 | 100 | 63 | | | 2 | | |
| 2455 | 106 | 81/04/16 | 0113:35 | 0114:30 | 551 | 247 | 20484 | | 4 | 88, 4 | |
| 2456 | 106 | 81/04/16 | 0255:25 | 0256:00 | 73 | 350 | 6187 | | 7 | 88, 5 | |
| 2457 | 106 | 81/04/16 | 0316:55 | 0317:25 | 131 | 111 | 1042 | | 2 | 88, 6 | |
| 2458 | 106 | 81/04/16 | 0411:50 | 0412:10 | 30 | 72 | | | 2 | | |
| 2459 | 106 | 81/04/16 | 0502:00 | 0503:55 | 145 | 63 | | | 2 | | |
| 2460 | 106 | 81/04/16 | 1534:50 | 1535:20 | 60 | 64 | | | 2 | | |
| 2461 | 106 | 81/04/16 | 2356:00 | 2356:20 | 45 | 61 | | | 2 | | |
| 2462 | 107 | 81/04/17 | 0408:05 | 0409:50 | 223 | 150 | 3909 | | 3 | 88, 7 | |
| 6337 | 107 | 81/04/17 | 0859:28 | 0859:56 | 80 | 65 | | | 2 | | I |
| 6338 | 107 | 81/04/17 | 0931:09 | 0931:36 | 47 | 83 | | | 2 | | I |
| 2463 | 107 | 81/04/17 | 0931:20 | 0931:35 | 35 | 82 | | | 2 | | |
| 6339 | 107 | 81/04/17 | 1214:43 | 1218:44 | 2619 | 77 | 25043 | | 2 | 196, 8 | I |
| 2464 | 107 | 81/04/17 | 1423:00 | 1424:15 | 277 | 1325 | 1.14E+05 | | 6 | 88, 8 | |
| 2465 | 107 | 81/04/17 | 1648:30 | 1648:55 | 55 | 58 | | | 2 | | |
| 2466 | 107 | 81/04/17 | 1829:05 | 1830:40 | 185 | 73 | | | 2 | | |
| 2467 | 107 | 81/04/17 | 1834:30 | 1834:45 | 60 | 110 | 1028 | | 7 | 88, 9 | |
| 2468 | 107 | 81/04/17 | 2310:00 | 2310:30 | 85 | 64 | | | 2 | | |
| 2469 | 108 | 81/04/18 | 0130:55 | 0136:10 | 696 | 1117 | 1.60E+05 | | 5 | 88, 10 | M, EN |
| 2470 | 108 | 81/04/18 | 0303:35 | 0304:00 | 84 | 134 | 1863 | | 3 | 88, 11 | |
| 6342 | 108 | 81/04/18 | 0439:49 | 0440:20 | 64 | 70 | | | 2 | | I |
| 6343 | 108 | 81/04/18 | 0547:32 | 0547:48 | 37 | 108 | 621 | | 2 | 196, 9 | I |
| 6344 | 108 | 81/04/18 | 0549:28 | 0549:37 | 89 | 225 | 1941 | | 2 | 196, 9 | I |
| 6345 | 108 | 81/04/18 | 0559:45 | 0604:34 | 1540 | 377 | 1.11E+05 | | 2 | 196, 9 | I |
| 6346 | 108 | 81/04/18 | 0710:47 | 0717:57 | 1163 | 88 | 16499 | | 2 | 196, 10 | I |
| 2471 | 108 | 81/04/18 | 1030:00 | 1030:25 | 55 | 74 | | | 2 | | |
| 2472 | 108 | 81/04/18 | 1048:45 | 1051:25 | 1185 | 4160 | 8.33E+05 | | 8 | 88, 12 | M |
| 2473 | 108 | 81/04/18 | 1701:45 | 1703:20 | 228 | 70 | 2902 | | 2 | 88, 13 | |
| 2474 | 108 | 81/04/18 | 1720:10 | 1721:45 | 130 | 59 | | | 2 | | |
| 2475 | 109 | 81/04/19 | 0119:45 | 0119:50 | 40 | 76 | | | 2 | | |
| 2476 | 109 | 81/04/19 | 0246:00 | 0246:20 | 40 | 74 | | | 2 | | |
| 2477 | 109 | 81/04/19 | 0859:10 | 0900:25 | 85 | 74 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2478 | 109 | 81/04/19 | 0914:25 | 0914:35 | 35 | 64 | | | 2 | | |
| 2479 | 109 | 81/04/19 | 1036:05 | 1036:35 | 50 | 85 | | | 2 | | |
| 2480 | 109 | 81/04/19 | 1050:20 | 1050:45 | 55 | 65 | | | 2 | | |
| 2481 | 109 | 81/04/19 | 1154:00 | 1154:30 | 45 | 66 | | | 2 | | |
| 2482 | 109 | 81/04/19 | 1241:40 | 1242:20 | 67 | 400 | 3191 | | 5 | 88, 14 | |
| 2483 | 109 | 81/04/19 | 1411:10 | 1411:55 | 175 | 66 | | | 2 | | |
| 2484 | 109 | 81/04/19 | 1515:55 | 1517:40 | 263 | 90 | 4006 | | 2 | 88, 15 | |
| 2485 | 109 | 81/04/19 | 1534:30 | 1538:15 | 401 | 1028 | 27438 | | 6 | 88, 16 | |
| 2486 | 109 | 81/04/19 | 1543:05 | 1544:10 | 95 | 164 | 3527 | | 3 | 88, 16 | |
| 2487 | 109 | 81/04/19 | 1652:00 | 1653:15 | 145 | 76 | | | 3 | | |
| 2488 | 109 | 81/04/19 | 1710:20 | 1711:40 | 497 | 192 | 12939 | | 3 | 89, 1 | |
| 2489 | 109 | 81/04/19 | 1719:15 | 1719:50 | 70 | 66 | | | 2 | | |
| 2490 | 109 | 81/04/19 | 2316:15 | 2316:55 | 100 | 84 | | | 2 | | |
| 2491 | 110 | 81/04/20 | 0229:00 | 0229:40 | 110 | 119 | 2418 | | 3 | 89, 2 | |
| 2492 | 110 | 81/04/20 | 0231:35 | 0232:05 | 130 | 75 | | | 2 | | |
| 2493 | 110 | 81/04/20 | 0343:25 | 0344:00 | 173 | 117 | 1767 | | 3 | 89, 3 | |
| 2494 | 110 | 81/04/20 | 1057:15 | 1058:35 | 286 | 977 | 63032 | | 7 | 89, 4 | |
| 2495 | 110 | 81/04/20 | 1624:35 | 1629:20 | 720 | 259 | 33135 | | 3 | 89, 5 | |
| 2496 | 110 | 81/04/20 | 2118:05 | 2118:40 | 60 | 95 | | | 2 | | |
| 2497 | 111 | 81/04/21 | 0907:50 | 0908:25 | 63 | 267 | 4264 | | 3 | 89, 6 | |
| 2498 | 111 | 81/04/21 | 1337:10 | 1337:25 | 60 | 98 | | | 2 | | |
| 6352 | 112 | 81/04/22 | 0228:49 | 0229:05 | 57 | 65 | | | 2 | | I |
| 6353 | 112 | 81/04/22 | 0713:13 | 0714:17 | 115 | 124 | 2174 | | 2 | 196, 12 | I |
| 2499 | 112 | 81/04/22 | 1341:30 | 1342:25 | 47 | 109 | 751 | | 3 | 89, 7 | |
| 2500 | 112 | 81/04/22 | 1513:40 | 1513:55 | 35 | 68 | | | 2 | | |
| 2501 | 112 | 81/04/22 | 1806:35 | 1813:25 | 1081 | 147 | 19671 | | 2 | 89, 8 | |
| 2502 | 112 | 81/04/22 | 1945:40 | 1946:50 | 80 | 72 | | | 2 | | |
| 2503 | 112 | 81/04/22 | 2001:50 | 2002:55 | 115 | 207 | 4797 | | 3 | 89, 9 | M, ES |
| 2504 | 112 | 81/04/22 | 2257:50 | 2300:15 | 238 | 209 | 12509 | | 3 | 89, 10 | |
| 2505 | 113 | 81/04/23 | 0008:15 | 0008:30 | 559 | 99 | 5182 | | 2 | 89, 11 | |
| 2506 | 113 | 81/04/23 | 0029:45 | 0032:15 | 725 | 305 | 38377 | | 6 | 89, 11 | M |
| 2507 | 113 | 81/04/23 | 0231:35 | 0232:35 | 253 | 120 | 5726 | | 2 | 89, 12 | |
| 2508 | 113 | 81/04/23 | 0706:20 | 0707:10 | 105 | 61 | | | 2 | | |
| 2509 | 113 | 81/04/23 | 1009:15 | 1010:30 | 70 | 71 | | | 2 | | |
| 2510 | 113 | 81/04/23 | 1142:05 | 1142:30 | 35 | 88 | | | 2 | | |
| 2511 | 113 | 81/04/23 | 1304:15 | 1305:00 | 110 | 116 | 6035 | | 2 | 89, 13 | |
| 2512 | 113 | 81/04/23 | 1616:25 | 1617:50 | 191 | 105 | 3763 | | 6 | 89, 14 | |
| 2513 | 113 | 81/04/23 | 1637:10 | 1638:00 | 90 | 65 | | | 2 | | |
| 2514 | 113 | 81/04/23 | 1741:20 | 1741:55 | 85 | 85 | | | 2 | | |
| 2515 | 113 | 81/04/23 | 1933:25 | 1933:45 | 100 | 95 | | | 2 | | |
| 2516 | 113 | 81/04/23 | 2053:55 | 2054:45 | 118 | 115 | 3116 | | 2 | 89, 15 | |
| 2517 | 114 | 81/04/24 | 0023:10 | 0023:40 | 70 | 92 | | | 2 | | |
| 2518 | 114 | 81/04/24 | 0041:50 | 0045:50 | 549 | 508 | 29095 | | 4 | 89, 16 | |
| 2519 | 114 | 81/04/24 | 0054:05 | 0054:45 | 85 | 82 | | | 2 | | |
| 2520 | 114 | 81/04/24 | 0135:50 | 0143:15 | 3342 | 11690 | 4.46E+06 | | 5 | 90, 1 | M, SN |
| 2521 | 114 | 81/04/24 | 0325:45 | 0326:55 | 768 | 74 | 2754 | | 2 | 90, 2 | |
| 2522 | 114 | 81/04/24 | 0459:50 | 0500:15 | 69 | 168 | 2054 | | 2 | 90, 3 | |
| 2523 | 114 | 81/04/24 | 0502:40 | 0506:35 | 324 | 142 | 1966 | | 2 | 90, 3 | |
| 2524 | 114 | 81/04/24 | 0839:45 | 0839:55 | 15 | 74 | | | 2 | | |
| 2525 | 114 | 81/04/24 | 0844:10 | 0853:40 | 836 | 314 | 75228 | | 3 | 90, 4 | M, EN |
| 6354 | 114 | 81/04/24 | 0934:52 | 0935:10 | 61 | 100 | | | 2 | | I |
| 6355 | 114 | 81/04/24 | 0946:13 | 0946:24 | 42 | 79 | | | 2 | | I |
| 6356 | 114 | 81/04/24 | 0948:34 | 0948:45 | 18 | 68 | | | 2 | | I |

ORIGINAL DATA
OF POOR QUALITY

66

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|----------|
| 6357 | 114 | 81/04/24 | 0952:42 | 0952:59 | 98 | 64 | | | 2 | | I |
| 6358 | 114 | 81/04/24 | 0957:44 | 0958:34 | 98 | 77 | | | 2 | | I |
| 6359 | 114 | 81/04/24 | 1000:37 | 1001:01 | 27 | 78 | | | 2 | | I |
| 2526 | 114 | 81/04/24 | 1110:10 | 1110:15 | 20 | 70 | | | 2 | | |
| 2527 | 114 | 81/04/24 | 1112:35 | 1112:50 | 53 | 128 | 1377 | | 2 | 90, 5 | |
| 2528 | 114 | 81/04/24 | 1116:40 | 1117:55 | 120 | 92 | | | 2 | | |
| 2529 | 114 | 81/04/24 | 1120:15 | 1120:25 | 40 | 62 | | | 2 | | |
| 2530 | 114 | 81/04/24 | 1123:25 | 1124:30 | 121 | 110 | 2324 | | 2 | 90, 5 | |
| 2531 | 114 | 81/04/24 | 1303:00 | 1303:25 | 50 | 74 | | | 2 | | |
| 2532 | 114 | 81/04/24 | 1322:50 | 1323:05 | 105 | 99 | | | 2 | | |
| 2533 | 114 | 81/04/24 | 1324:35 | 1325:35 | 60 | 99 | | | 3 | | |
| 2534 | 114 | 81/04/24 | 1334:10 | 1334:30 | 80 | 68 | | | 2 | | |
| 4397 | 114 | 81/04/24 | 1420:45 | 1434:55 | 3428 | 1794 | 1.07E+06 | | 14 | 146, 7 | M, I, SN |
| 2535 | 114 | 81/04/24 | 1620:25 | 1620:35 | 20 | 77 | | | 2 | | |
| 2536 | 114 | 81/04/24 | 1740:40 | 1741:30 | 90 | 65 | | | 2 | | |
| 2537 | 114 | 81/04/24 | 2103:45 | 2103:55 | 25 | 60 | | | 2 | | |
| 2538 | 114 | 81/04/24 | 2112:05 | 2112:50 | 182 | 250 | 6197 | | 3 | 90, 6 | |
| 2539 | 114 | 81/04/24 | 2116:05 | 2116:15 | 20 | 81 | | | 2 | | |
| 2540 | 114 | 81/04/24 | 2226:15 | 2226:25 | 25 | 71 | | | 2 | 90, 7 | |
| 2541 | 114 | 81/04/24 | 2228:20 | 2228:55 | 138 | 128 | 1742 | | 2 | 90, 7 | |
| 2542 | 115 | 81/04/25 | 0019:25 | 0019:35 | 20 | 361 | 1337 | | 3 | 90, 8 | |
| 2543 | 115 | 81/04/25 | 0030:20 | 0030:40 | 60 | 140 | 1572 | | 2 | 90, 9 | |
| 2544 | 115 | 81/04/25 | 0032:00 | 0033:40 | 130 | 82 | | | 2 | 90, 9 | |
| 2545 | 115 | 81/04/25 | 0046:40 | 0046:55 | 45 | 543 | 2516 | | 5 | 90, 10 | |
| 2546 | 115 | 81/04/25 | 0154:40 | 0154:50 | 40 | 100 | | | 2 | | |
| 2547 | 115 | 81/04/25 | 0209:05 | 0209:30 | 53 | 113 | 727 | | 2 | 90, 11 | |
| 2548 | 115 | 81/04/25 | 0221:00 | 0221:10 | 24 | 195 | 806 | | 4 | 90, 12 | |
| 2549 | 115 | 81/04/25 | 0510:35 | 0511:05 | 1008 | 845 | 14729 | | 4 | 90, 13 | M |
| 2550 | 115 | 81/04/25 | 0527:55 | 0528:40 | 96 | 535 | 2125 | | 3 | 90, 13 | |
| 2551 | 115 | 81/04/25 | 0530:10 | 0531:35 | 180 | 298 | 2205 | | 3 | 90, 13 | |
| 2552 | 115 | 81/04/25 | 0539:25 | 0540:00 | 86 | 103 | 5624 | | 5 | 90, 13 | |
| 2553 | 115 | 81/04/25 | 0628:30 | 0628:45 | 77 | 150 | 1616 | | 2 | 90, 14 | |
| 2554 | 115 | 81/04/25 | 0653:10 | 0654:40 | 122 | 122 | 1476 | | 2 | 90, 15 | |
| 2555 | 115 | 81/04/25 | 0655:20 | 0656:15 | 100 | 106 | 1090 | | 2 | 90, 15 | |
| 6360 | 115 | 81/04/25 | 0756:39 | 0757:12 | 127 | 73 | | | 2 | | I |
| 6361 | 115 | 81/04/25 | 0821:34 | 0823:37 | 178 | 74 | | | 4 | | I |
| 2556 | 115 | 81/04/25 | 0951:10 | 0952:00 | 180 | 86 | | | 2 | | |
| 2557 | 115 | 81/04/25 | 1001:05 | 1001:30 | 95 | 69 | | | 2 | | |
| 2558 | 115 | 81/04/25 | 1026:45 | 1026:55 | 40 | 66 | | | 2 | | |
| 6362 | 115 | 81/04/25 | 1145:33 | 1145:47 | 39 | 84 | | | 2 | | I |
| 6364 | 115 | 81/04/25 | 1237:57 | 1238:31 | 121 | 100 | | | 2 | | I |
| 6365 | 115 | 81/04/25 | 1246:22 | 1246:55 | 243 | 67 | 1983 | | 2 | 196, 13 | I |
| 6366 | 115 | 81/04/25 | 1324:09 | 1325:13 | 152 | 146 | 3425 | | 2 | 196, 14 | I |
| 2559 | 115 | 81/04/25 | 1548:50 | 1553:10 | 1279 | 366 | 1.22E+05 | | 3 | 90, 16 | SN |
| 2560 | 115 | 81/04/25 | 1739:30 | 1740:30 | 190 | 46 | 3648 | | 3 | 91, 1 | |
| 2561 | 115 | 81/04/25 | 1749:40 | 1749:50 | 30 | 73 | | | 2 | | |
| 2562 | 115 | 81/04/25 | 1751:25 | 1753:10 | 180 | 74 | | | 2 | | |
| 2563 | 115 | 81/04/25 | 2038:55 | 2039:20 | 170 | 74 | | | 2 | | |
| 2564 | 115 | 81/04/25 | 2043:10 | 2044:20 | 130 | 82 | | | 2 | | |
| 2565 | 115 | 81/04/25 | 2217:15 | 2218:10 | 100 | 90 | | | 2 | | |
| 2566 | 115 | 81/04/25 | 2234:35 | 2235:10 | 78 | 111 | | | 2 | 91, 2 | |
| 2567 | 115 | 81/04/25 | 2237:20 | 2238:50 | 55 | 86 | | | 2 | | |
| 2568 | 116 | 81/04/26 | 0001:55 | 0003:40 | 175 | 94 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLAKE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2569 | 116 | 81/04/26 | 0004:55 | 0006:00 | 100 | 94 | | | 2 | | |
| 2570 | 116 | 81/04/26 | 0015:05 | 0017:05 | 475 | 229 | 22909 | | 4 | 91, 3 | |
| 2571 | 116 | 81/04/26 | 0028:15 | 0028:30 | 45 | 95 | | | 2 | | |
| 2572 | 116 | 81/04/26 | 0144:35 | 0146:40 | 561 | 162 | 13829 | | 2 | 91, 4 | |
| 2573 | 116 | 81/04/26 | 0311:30 | 0313:10 | 263 | 370 | 17832 | | 5 | 91, 5 | |
| 2574 | 116 | 81/04/26 | 0610:45 | 0615:30 | 711 | 560 | 42838 | | 2 | 91, 6 | |
| 2575 | 116 | 81/04/26 | 0631:40 | 0632:50 | 228 | 471 | 13346 | | 4 | 91, 6 | |
| 2576 | 116 | 81/04/26 | 0642:30 | 0643:00 | 160 | 61 | | | 2 | | |
| 2577 | 116 | 81/04/26 | 0938:10 | 0939:20 | 105 | 63 | | | 2 | | |
| 2578 | 116 | 81/04/26 | 1009:55 | 1010:05 | 20 | 86 | | | 2 | | |
| 2579 | 116 | 81/04/26 | 1054:50 | 1148:10 | 3629 | 7823 | 3.62E+06 | | 15 | 91, 7 | M, IN |
| 2580 | 116 | 81/04/26 | 1312:30 | 1318:40 | 640 | 70 | 4150 | | 5 | 91, 8 | |
| 2581 | 116 | 81/04/26 | 1415:15 | 1415:40 | 155 | 94 | | | 4 | | |
| 2582 | 116 | 81/04/26 | 1431:40 | 1432:25 | 115 | 73 | | | 2 | | |
| 2583 | 116 | 81/04/26 | 1552:10 | 1553:15 | 105 | 69 | | | 2 | | |
| 2584 | 116 | 81/04/26 | 1735:55 | 1739:20 | 981 | 4922 | 4.13E+05 | | 9 | 91, 9 | M, EN |
| 2585 | 116 | 81/04/26 | 1917:25 | 1918:20 | 170 | 87 | | | 2 | | |
| 2586 | 116 | 81/04/26 | 1923:25 | 1924:25 | 110 | 76 | | | 2 | | |
| 2587 | 116 | 81/04/26 | 2101:50 | 2102:05 | 60 | 76 | | | 2 | | |
| 2588 | 117 | 81/04/27 | 0513:25 | 0513:50 | 50 | 96 | | | 2 | | |
| 2589 | 117 | 81/04/27 | 0740:55 | 0812:55 | 9052 | 56177 | 4.85E+07 | | 15 | 198, 2 | M |
| 2590 | 117 | 81/04/27 | 1404:15 | 1404:55 | 105 | 76 | | | 2 | | |
| 2591 | 117 | 81/04/27 | 1858:15 | 1858:40 | 95 | 135 | | | 2 | | |
| 2592 | 118 | 81/04/28 | 0500:20 | 0500:30 | 50 | 64 | | | 14 | | |
| 2593 | 118 | 81/04/28 | 2148:25 | 2149:10 | 2981 | 691 | | | 3 | 91, 10 | M, SN |
| 2594 | 119 | 81/04/29 | 0729:45 | 0729:25 | 75 | 76 | | | 2 | | |
| 2595 | 119 | 81/04/29 | 0941:55 | 0942:05 | 30 | 76 | | | 2 | | |
| 2596 | 120 | 81/04/30 | 0302:00 | 0305:25 | 1559 | 123 | 34244 | | 4 | 91, 11 | |
| 2597 | 120 | 81/04/30 | 1109:00 | 1109:30 | 50 | 82 | | | 2 | | |
| 6367 | 120 | 81/04/30 | 1219:08 | 1220:47 | 164 | 56 | | | 2 | | I |
| 2598 | 121 | 81/05/01 | 0110:25 | 0110:45 | 46 | 164 | 1086 | | 2 | 92, 1 | |
| 2599 | 121 | 81/05/01 | 2136:50 | 2137:35 | 153 | 325 | 14219 | | 4 | 92, 2 | |
| 2600 | 122 | 81/05/02 | 0350:15 | 0350:30 | 20 | 75 | | | 2 | | |
| 2601 | 123 | 81/05/03 | 0030:00 | 0030:20 | 178 | 64 | 1131 | | 2 | 92, 3 | |
| 2602 | 123 | 81/05/03 | 1941:10 | 1941:40 | 272 | 188 | 6021 | | 4 | 92, 4 | |
| 2603 | 123 | 81/05/03 | 2124:45 | 2127:15 | 256 | 125 | 4028 | | 2 | 92, 5 | |
| 2604 | 124 | 81/05/04 | 0836:40 | 0838:45 | 711 | 19517 | 1.17E+06 | | 14 | 92, 6 | M |
| 2605 | 124 | 81/05/04 | 1935:15 | 1935:35 | 90 | 70 | | | 2 | | |
| 2606 | 125 | 81/05/05 | 0200:25 | 0200:45 | 105 | 61 | | | 2 | | |
| 2607 | 125 | 81/05/05 | 1050:25 | 1050:35 | 30 | 56 | | | 2 | | |
| 2608 | 125 | 81/05/05 | 2255:00 | 2258:00 | 1231 | 852 | 1.77E+05 | | 4 | 92, 8 | M |
| 2609 | 126 | 81/05/06 | 0818:40 | 0819:00 | 50 | 69 | | | 2 | | |
| 2610 | 127 | 81/05/07 | 0201:35 | 0202:25 | 90 | 76 | | | 2 | | |
| 2611 | 127 | 81/05/07 | 0540:40 | 0540:55 | 40 | 58 | | | 2 | | |
| 2612 | 127 | 81/05/07 | 0625:05 | 0625:40 | 85 | 53 | | | 2 | | |
| 2613 | 127 | 81/05/07 | 0711:15 | 0712:30 | 90 | 66 | | | 2 | | |
| 2614 | 127 | 81/05/07 | 0826:00 | 0826:25 | 50 | 77 | | | 2 | | |
| 2615 | 127 | 81/05/07 | 0835:05 | 0835:25 | 40 | 76 | | | 2 | | |
| 2616 | 127 | 81/05/07 | 1427:40 | 1428:10 | 130 | 70 | | | 2 | | |
| 2617 | 127 | 81/05/07 | 1742:40 | 1743:20 | 95 | 89 | | | 2 | | |
| 2618 | 127 | 81/05/07 | 1746:45 | 1747:20 | 85 | 76 | | | 2 | | |
| 6379 | 127 | 81/05/07 | 2100:38 | 2101:14 | 64 | 93 | | | 2 | | I |
| 2619 | 128 | 81/05/08 | 0007:35 | 0007:45 | 50 | 65 | | | 2 | | |

ORIGINAL PAGE
OF POOR QUALITY

68

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 2620 | 128 | 81/05/08 | 0217:55 | 0218:20 | 125 | 81 | | | 3 | | |
| 2621 | 128 | 81/05/08 | 0335:00 | 0335:15 | 55 | 64 | | | 2 | | |
| 2622 | 128 | 81/05/08 | 0542:15 | 0542:45 | 49 | 517 | 6193 | | 7 | 92, 9 | |
| 2623 | 128 | 81/05/08 | 1027:05 | 1027:30 | 50 | 68 | | | 2 | | |
| 2624 | 128 | 81/05/08 | 1333:10 | 1334:10 | 135 | 91 | | | 2 | | |
| 2625 | 128 | 81/05/08 | 1738:30 | 1739:05 | 56 | 220 | 2312 | | 2 | 92, 10 | |
| 2626 | 128 | 81/05/08 | 1928:35 | 1928:35 | 160 | 94 | | | 2 | | |
| 2627 | 128 | 81/05/08 | 2057:20 | 2058:25 | 140 | 71 | | | 2 | | |
| 2628 | 128 | 81/05/08 | 2208:55 | 2233:25 | 5700 | 3271 | 1.65E+06 | | 10 | 92, 11 | M, IN |
| 2629 | 129 | 81/05/09 | 0157:45 | 0158:30 | 119 | 441 | 12527 | | 5 | 92, 12 | |
| 2730 | 129 | 81/05/09 | 1155:35 | 1156:15 | 60 | 82 | | | 5 | | |
| 2630 | 129 | 81/05/09 | 1234:25 | 1235:40 | 200 | 82 | | | 2 | | |
| 2631 | 129 | 81/05/09 | 1325:25 | 1325:35 | 20 | 95 | | | 2 | | |
| 2731 | 129 | 81/05/09 | 1336:00 | 1336:45 | 474 | 85 | 5320 | | 5 | 95, 12 | |
| 2732 | 129 | 81/05/09 | 1516:15 | 1517:15 | 180 | 91 | | | 2 | | |
| 2733 | 129 | 81/05/09 | 1555:40 | 1557:15 | 299 | 169 | 18160 | | 10 | | 3 |
| 2632 | 129 | 81/05/09 | 1637:05 | 1638:55 | 265 | 221 | 14871 | | 2 | 92, 13 | |
| 2633 | 129 | 81/05/09 | 1718:05 | 1719:25 | 155 | 83 | | | 2 | | |
| 2734 | 129 | 81/05/09 | 1949:05 | 1950:50 | 172 | 240 | 7260 | | 5 | 95, 14 | |
| 2634 | 129 | 81/05/09 | 2204:35 | 2205:05 | 127 | 469 | 13465 | | 5 | 92, 14 | |
| 2635 | 129 | 81/05/09 | 2207:40 | 2208:50 | 325 | 367 | 21455 | | 2 | 92, 14 | |
| 2636 | 129 | 81/05/09 | 2227:05 | 2227:35 | 70 | 100 | | | 2 | | |
| 2637 | 129 | 81/05/09 | 2253:20 | 2305:30 | 995 | 243 | 18612 | | 2 | 92, 15 | |
| 2638 | 130 | 81/05/10 | 0129:15 | 0131:30 | 237 | 138 | 7252 | | 2 | 92, 16 | |
| 2639 | 130 | 81/05/10 | 0150:50 | 0151:20 | 145 | 81 | | | 2 | | |
| 2640 | 130 | 81/05/10 | 0501:50 | 0504:30 | 989 | 392 | 50972 | | 5 | 93, 1 | |
| 2641 | 130 | 81/05/10 | 0610:05 | 0610:20 | 30 | 59 | | | 2 | | |
| 2735 | 130 | 81/05/10 | 0908:30 | 0909:30 | 168 | 116 | 3138 | | 2 | 95, 15 | |
| 2642 | 130 | 81/05/10 | 1224:40 | 1228:45 | 3940 | 445 | 1.61E+05 | | 15 | 93, 2 | M, IS |
| 2643 | 130 | 81/05/10 | 1950:50 | 1951:05 | 50 | 80 | | | 2 | | |
| 2644 | 130 | 81/05/10 | 2050:45 | 2051:10 | 35 | 74 | | | 2 | | |
| 2645 | 130 | 81/05/10 | 2124:10 | 2124:30 | 50 | 85 | | | 2 | | |
| 2646 | 131 | 81/05/11 | 0013:40 | 0014:10 | 103 | 244 | 2967 | | 5 | 93, 3 | |
| 2647 | 131 | 81/05/11 | 0136:15 | 0136:35 | 60 | 169 | 1397 | | 2 | 93, 4 | |
| 2648 | 131 | 81/05/11 | 0317:15 | 0317:45 | 45 | 75 | | | 2 | | |
| 2649 | 131 | 81/05/11 | 0330:55 | 0332:05 | 160 | 158 | 4294 | | 2 | 93, 5 | |
| 2650 | 131 | 81/05/11 | 0447:45 | 0448:20 | 50 | 71 | | | 2 | | |
| 2651 | 131 | 81/05/11 | 0521:00 | 0521:40 | 65 | 91 | | | 2 | | |
| 2652 | 131 | 81/05/11 | 0603:55 | 0613:30 | 1227 | 608 | 1.99E+05 | | 10 | 93, 6 | M |
| 2655 | 131 | 81/05/11 | 1332:25 | 1553:15 | 88 | 132 | 1463 | | 2 | 93, 7 | |
| 2653 | 131 | 81/05/11 | 1403:30 | 1403:55 | 145 | 84 | 1786 | | 2 | | |
| 2654 | 131 | 81/05/11 | 1449:35 | 1449:55 | 105 | 93 | | | 2 | | |
| 2656 | 131 | 81/05/11 | 1534:55 | 1535:05 | 40 | 80 | | | 2 | 93, 7 | |
| 2657 | 131 | 81/05/11 | 2039:15 | 2039:25 | 50 | 61 | | | 2 | | |
| 2658 | 131 | 81/05/11 | 2252:55 | 2253:30 | 85 | 56 | | | 2 | | |
| 2659 | 131 | 81/05/11 | 2339:15 | 2339:35 | 113 | 200 | 3169 | | 5 | 93, 8 | |
| 2660 | 132 | 81/05/12 | 0504:15 | 0505:15 | 80 | 65 | | | 2 | | |
| 2661 | 132 | 81/05/12 | 1835:50 | 1836:00 | 20 | 49 | | | 2 | | |
| 2662 | 133 | 81/05/13 | 0406:45 | 0415:30 | 7205 | 5418 | 3.07E+06 | | 15 | 198, 3 | M, SN, IN |
| 2663 | 133 | 81/05/13 | 1443:45 | 1444:00 | 35 | 212 | 1948 | | 3 | 93, 9 | EN |
| 2664 | 133 | 81/05/13 | 1842:00 | 1842:10 | 29 | 114 | 453 | | 2 | 93, 10 | |
| 2665 | 133 | 81/05/13 | 2324:15 | 2325:00 | 171 | 162 | 59327 | | 2 | 93, 11 | |
| 2666 | 134 | 81/05/14 | 0314:15 | 0315:25 | 314 | 3432 | 1.20E+05 | | 9 | 93, 12 | |

ORIGINAL LISTING
OF POOR QUALITY

69

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|----------|
| 2667 | 134 | 81/05/14 | 0631:00 | 0631:25 | 52 | 138 | 1093 | | 2 | 93, 13 | |
| 2668 | 134 | 81/05/14 | 1421:35 | 1422:15 | 202 | 155 | 2707 | | 2 | 93, 14 | |
| 2669 | 135 | 81/05/15 | 0414:15 | 0416:00 | 195 | 67 | | | 2 | | |
| 2670 | 135 | 81/05/15 | 0544:45 | 0544:45 | 303 | 215 | 8691 | | 9 | 93, 15 | SN |
| 2671 | 135 | 81/05/15 | 0620:55 | 0621:25 | 61 | 112 | 718 | | 5 | 93, 16 | |
| 2672 | 135 | 81/05/15 | 0735:40 | 0739:00 | 615 | 118 | 4644 | | 2 | 94, 1 | |
| 2673 | 135 | 81/05/15 | 0757:45 | 0758:40 | 207 | 103 | 3316 | | 2 | 94, 2 | |
| 2674 | 135 | 81/05/15 | 1815:30 | 1815:35 | 20 | 50 | | | 2 | | |
| 2675 | 135 | 81/05/15 | 1829:30 | 1830:55 | 170 | 100 | | | 2 | | |
| 2676 | 135 | 81/05/15 | 1853:20 | 1854:40 | 142 | 187 | 5481 | | 2 | 94, 3 | |
| 2677 | 135 | 81/05/15 | 2135:15 | 2136:15 | 195 | 95 | | | 7 | | AX |
| 2678 | 135 | 81/05/15 | 2220:00 | 2220:45 | 120 | 67 | | | 2 | | |
| 2679 | 136 | 81/05/16 | 0036:05 | 0036:30 | 90 | 64 | | | 2 | | SN |
| 2680 | 136 | 81/05/16 | 0211:30 | 0212:05 | 65 | 61 | | | 2 | | |
| 2681 | 136 | 81/05/16 | 0240:50 | 0241:20 | 45 | 79 | | | 2 | | |
| 2682 | 136 | 81/05/16 | 0442:20 | 0442:45 | 45 | 69 | | | 2 | | |
| 2683 | 136 | 81/05/16 | 0551:40 | 0552:10 | 75 | 160 | 1314 | | 3 | 94, 4 | |
| 2684 | 136 | 81/05/16 | 0658:24 | 0900:02 | 202 | 972 | 3.77E+05 | | 5 | 197, 5 | M, SA, I |
| 2684 | 136 | 81/05/16 | 2344:55 | 2346:10 | 145 | 86 | | | 5 | | |
| 2685 | 137 | 81/05/17 | 2027:35 | 2032:30 | 316 | 98 | 2090 | | 2 | 94, 5 | |
| 2686 | 137 | 81/05/17 | 2126:15 | 2133:10 | 629 | 111 | 8623 | | 5 | 94, 6 | |
| 2687 | 137 | 81/05/17 | 2335:30 | 2337:45 | 241 | 93 | 4262 | | 5 | 94, 7 | |
| 2688 | 138 | 81/05/18 | 1449:55 | 1451:30 | 277 | 87 | 5505 | | 2 | 94, 8 | M |
| 2689 | 138 | 81/05/18 | 1623:20 | 1630:05 | 747 | 62 | 8790 | | 2 | 94, 9 | ES |
| 2690 | 138 | 81/05/18 | 1941:30 | 1943:20 | 230 | 442 | 18232 | | 4 | 94, 10 | |
| 2691 | 138 | 81/05/18 | 2243:20 | 2245:35 | 712 | 116 | 18723 | | 4 | 94, 11 | AX |
| 2692 | 140 | 81/05/20 | 0102:55 | 0103:50 | 145 | 73 | | | 4 | | |
| 2693 | 140 | 81/05/20 | 0145:15 | 0145:45 | 180 | 65 | | | 2 | | |
| 2694 | 140 | 81/05/20 | 1429:55 | 1437:20 | 490 | 136 | 14460 | | 3 | 94, 12 | AX |
| 2695 | 140 | 81/05/20 | 2131:15 | 2132:45 | 200 | 96 | | | 6 | | |
| 2696 | 140 | 81/05/20 | 2233:25 | 2234:10 | 40 | 76 | | | 2 | | |
| 2697 | 140 | 81/05/20 | 2308:40 | 2311:05 | 425 | 125 | 8217 | | 4 | 94, 13 | |
| 2698 | 141 | 81/05/21 | 0142:50 | 0143:45 | 165 | 86 | | | 2 | | |
| 6390 | 141 | 81/05/21 | 0629:10 | 0631:17 | 334 | 736 | 32144 | | 5 | 197, 7 | M, I |
| 6389 | 141 | 81/05/21 | 2123:36 | 2124:41 | 152 | 67 | | | 3 | | I |
| 2699 | 141 | 81/05/21 | 2220:25 | 2226:15 | 457 | 288 | | | 10 | 94, 14 | |
| 2700 | 141 | 81/05/21 | 2300:30 | 2301:35 | 235 | 131 | 9122 | | 5 | 94, 15 | |
| 6391 | 143 | 81/05/23 | 0321:19 | 0324:14 | 432 | 113 | 6606 | | 2 | 197, 9 | I |
| 2702 | 143 | 81/05/23 | 2105:25 | 2106:10 | 190 | 92 | | | 5 | | |
| 2701 | 143 | 81/05/23 | 2112:35 | 2113:30 | 260 | 98 | 5331 | | 5 | 94, 16 | |
| 2703 | 144 | 81/05/24 | 0023:50 | 0025:55 | 538 | 94 | 9087 | | 5 | 95, 1 | |
| 2704 | 144 | 81/05/24 | 0432:25 | 0437:05 | 587 | 106 | 9504 | | 2 | 95, 2 | |
| 2705 | 144 | 81/05/24 | 0504:40 | 0506:20 | 160 | 95 | | | 2 | | |
| 2706 | 144 | 81/05/24 | 1120:30 | 1120:50 | 60 | 147 | 1045 | | 5 | 95, 3 | |
| 2707 | 144 | 81/05/24 | 2056:30 | 2058:35 | 292 | 72 | 2945 | | 2 | 95, 4 | |
| 2708 | 144 | 81/05/24 | 2215:04 | 2215:50 | 100 | 71 | | | 2 | | |
| 2709 | 145 | 81/05/25 | 0427:15 | 0429:05 | 161 | 128 | 2764 | | 2 | 95, 5 | |
| 2710 | 145 | 81/05/25 | 1704:55 | 1705:05 | 30 | 85 | | | 2 | | |
| 2711 | 145 | 81/05/25 | 1906:25 | 1907:15 | 170 | 77 | | | 6 | | |
| 2712 | 145 | 81/05/25 | 2044:05 | 2044:40 | 120 | 74 | | | 5 | | |
| 2713 | 145 | 81/05/25 | 2049:10 | 2049:50 | 190 | 69 | | | 2 | | |
| 2714 | 145 | 81/05/25 | 2151:35 | 2152:15 | 85 | 95 | | | 5 | | ND |
| 2715 | 145 | 81/05/25 | 2222:10 | 2232:35 | 770 | 108 | 12196 | | 6 | 95, 6 | |

ORIGINAL LIST
OF POOR QUALITY

70

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 2716 | 146 | 81/05/26 | 0151:30 | 0152:45 | 135 | 71 | | | 2 | | |
| 2717 | 147 | 81/05/27 | 0751:20 | 0752:00 | 55 | 92 | | | 2 | | |
| 2718 | 147 | 81/05/27 | 1337:00 | 1339:00 | 216 | 116 | 2950 | | 2 | 95, 7 | |
| 2719 | 147 | 81/05/27 | 1730:25 | 1730:45 | 140 | 61 | | | 2 | | |
| 2720 | 147 | 81/05/27 | 2209:30 | 2212:00 | 501 | 120 | 17592 | | 5 | 95, 8 | AX |
| 2721 | 148 | 81/05/28 | 0605:35 | 0606:05 | 85 | 212 | 2259 | | 4 | 95, 9 | |
| 2722 | 151 | 81/05/31 | 1928:20 | 1928:30 | 17 | 163 | | | 2 | | |
| 2723 | 155 | 81/06/04 | 1600:40 | 1602:20 | 195 | 81 | | | 3 | | |
| 2724 | 156 | 81/06/05 | 0201:10 | 0201:20 | 30 | 99 | | | 15 | | AX |
| 2725 | 158 | 81/06/07 | 0258:00 | 0258:45 | 117 | 129 | 2644 | | 2 | 95, 10 | |
| 2726 | 158 | 81/06/07 | 1358:15 | 1359:15 | 195 | 90 | | | 10 | | |
| 2727 | 159 | 81/06/08 | 0305:25 | 0306:25 | 165 | 91 | | | 2 | | |
| 2728 | 159 | 81/06/08 | 0752:05 | 0750:30 | 303 | 390 | 18597 | | 5 | 95, 11 | |
| 2729 | 159 | 81/06/08 | 0810:30 | 0810:55 | 56 | 99 | | | 2 | | |
| 2736 | 161 | 81/06/10 | 1154:25 | 1155:10 | 75 | 81 | | | 2 | | |
| 2737 | 161 | 81/06/10 | 1326:05 | 1328:35 | 200 | 94 | | | 5 | | |
| 2738 | 161 | 81/06/10 | 1503:50 | 1507:35 | 502 | 93 | 6131 | | 5 | 95, 16 | |
| 2739 | 162 | 81/06/11 | 1142:25 | 1143:50 | 185 | 99 | | | 6 | | AX |
| 2740 | 164 | 81/06/13 | 2241:55 | 2242:05 | 25 | 98 | | | 2 | | |
| 2741 | 167 | 81/06/16 | 0640:45 | 0641:45 | 85 | 65 | | | 2 | | |
| 2742 | 167 | 81/06/16 | 0744:25 | 0745:20 | 200 | 111 | 4512 | | 2 | 96, 1 | |
| 2743 | 167 | 81/06/16 | 1230:15 | 1231:10 | 125 | 100 | | | 2 | | |
| 2744 | 167 | 81/06/16 | 1232:50 | 1234:35 | 185 | 70 | | | 3 | | |
| 2745 | 167 | 81/06/16 | 2028:30 | 2028:55 | 75 | 93 | | | 2 | | |
| 2746 | 168 | 81/06/17 | 0002:15 | 0003:55 | 486 | 1236 | 52891 | | 5 | 96, 2 | |
| 2747 | 168 | 81/06/17 | 0132:30 | 0133:05 | 75 | 296 | 4406 | | 3 | 96, 3 | |
| 2748 | 168 | 81/06/17 | 0250:35 | 0251:50 | 130 | 97 | | | 2 | | |
| 2749 | 168 | 81/06/17 | 0322:45 | 0324:15 | 149 | 112 | 2035 | | 4 | 96, 4 | |
| 2750 | 168 | 81/06/17 | 0430:05 | 0430:35 | 40 | 71 | | | 2 | | |
| 2751 | 168 | 81/06/17 | 0506:20 | 0506:30 | 20 | 65 | | | 2 | | |
| 2752 | 168 | 81/06/17 | 0751:55 | 0752:00 | 25 | 89 | | | 2 | | |
| 2753 | 168 | 81/06/17 | 0910:55 | 0912:35 | 175 | 78 | | | 5 | | |
| 2754 | 168 | 81/06/17 | 0946:50 | 0949:10 | 334 | 571 | 26782 | | 7 | 96, 5 | |
| 2755 | 168 | 81/06/17 | 1000:55 | 1001:20 | 65 | 92 | | | 2 | | |
| 2756 | 173 | 81/06/22 | 1450:30 | 1454:20 | 1386 | 329 | 98304 | | 10 | 96, 6 | M, SN, ES |
| 2766 | 174 | 81/06/23 | 0042:40 | 0043:00 | 180 | 83 | | | 2 | | |
| 2757 | 174 | 81/06/23 | 0658:55 | 0659:05 | 47 | 156 | 2063 | | 4 | 96, 7 | |
| 2758 | 174 | 81/06/23 | 0903:15 | 0904:20 | 143 | 143 | 3278 | | 2 | 96, 8 | |
| 2759 | 174 | 81/06/23 | 1220:40 | 1223:30 | 375 | 133 | 8547 | | 2 | 96, 9 | |
| 2760 | 174 | 81/06/23 | 1719:00 | 1719:05 | 360 | 127 | 15492 | | 3 | 96, 10 | M, AX, SA |
| 2761 | 174 | 81/06/23 | 1815:20 | 1815:50 | 55 | 76 | | | 2 | | |
| 2762 | 174 | 81/06/23 | 1823:50 | 1824:30 | 85 | 75 | | | 2 | | |
| 2763 | 174 | 81/06/23 | 1858:00 | 1858:05 | 68 | 212 | 2797 | | 3 | 96, 11 | M, SA |
| 2764 | 174 | 81/06/23 | 2252:30 | 2252:55 | 60 | 74 | | | 2 | | |
| 2765 | 174 | 81/06/23 | 2336:15 | 2337:15 | 110 | 89 | | | 2 | | |
| 2767 | 175 | 81/06/24 | 0157:20 | 0159:10 | 216 | 123 | 6418 | | 2 | 96, 12 | |
| 2768 | 175 | 81/06/24 | 0638:40 | 0640:15 | 195 | 87 | | | 2 | | |
| 2769 | 175 | 81/06/24 | 0853:35 | 0853:40 | 23 | 115 | 418 | | 3 | 96, 13 | |
| 2770 | 175 | 81/06/24 | 1305:55 | 1307:25 | 95 | 76 | | | 2 | | |
| 2771 | 175 | 81/06/24 | 1624:20 | 1624:45 | 70 | 81 | | | 2 | | |
| 2772 | 175 | 81/06/24 | 1709:50 | 1712:30 | 225 | 198 | 8900 | | 3 | 96, 14 | SN |
| 2773 | 175 | 81/06/24 | 2028:15 | 2028:45 | 65 | 130 | 1340 | | 2 | 96, 15 | |
| 2774 | 176 | 81/06/25 | 0057:00 | 0058:10 | 1150 | 1480 | | | 10 | 96, 16 | ND |

CHARTER OF RECORDS

71

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2775 | 176 | 81/06/25 | 0157:45 | 0159:10 | 148 | 1018 | 14193 | | 10 | 97, 1 | M |
| 2776 | 176 | 81/06/25 | 0201:55 | 0202:40 | 75 | 76 | | | 2 | | |
| 2777 | 176 | 81/06/25 | 0219:35 | 0219:50 | 39 | 154 | 4358 | | 2 | 97, 1 | ND |
| 2778 | 176 | 81/06/25 | 0334:05 | 0334:50 | 345 | 205 | 6205 | | 2 | 97, 2 | |
| 2779 | 176 | 81/06/25 | 0345:20 | 0345:40 | 75 | 151 | 1380 | | 4 | 97, 3 | |
| 2780 | 176 | 81/06/25 | 0406:40 | 0407:15 | 65 | 72 | | | 2 | | |
| 2781 | 176 | 81/06/25 | 0508:45 | 0509:00 | 40 | 38 | | | 2 | | |
| 2782 | 176 | 81/06/25 | 1741:45 | 1745:00 | 415 | 262 | 22539 | | 2 | 97, 4 | |
| 2783 | 176 | 81/06/25 | 2020:30 | 2022:00 | 69 | 360 | 4749 | | 5 | 97, 5 | |
| 2784 | 176 | 81/06/25 | 2051:20 | 2051:50 | 213 | 75 | 1676 | | 2 | 97, 6 | |
| 2785 | 176 | 81/06/25 | 2157:25 | 2158:00 | 105 | 77 | | | 2 | | |
| 2786 | 176 | 81/06/25 | 2309:45 | 2309:50 | 20 | 69 | | | 2 | | |
| 2787 | 176 | 81/06/25 | 2311:15 | 2311:35 | 60 | 82 | | | 2 | | |
| 2788 | 177 | 81/06/26 | 0034:15 | 0035:10 | 200 | 106 | 2807 | | 2 | 97, 7 | |
| 2789 | 177 | 81/06/26 | 0320:15 | 0325:15 | 1317 | 119 | 21576 | | 2 | 97, 8 | |
| 2790 | 177 | 81/06/26 | 0640:35 | 0644:35 | 672 | 552 | 52722 | | 2 | 97, 9 | |
| 2791 | 177 | 81/06/26 | 1340:55 | 1341:30 | 30 | 430 | 4448 | | 3 | 97, 10 | |
| 2792 | 177 | 81/06/26 | 1909:05 | 1909:45 | 200 | 64 | | | 2 | | |
| 2793 | 178 | 81/06/27 | 0753:55 | 0754:50 | 85 | 95 | | | 2 | | |
| 2794 | 178 | 81/06/27 | 0847:20 | 0857:10 | 772 | 391 | 6391 | | 5 | 97, 11 | M, EN |
| 2795 | 179 | 81/06/28 | 0023:05 | 0023:40 | 285 | 419 | 10446 | | 5 | 97, 12 | |
| 2796 | 179 | 81/06/28 | 0358:15 | 0359:10 | 240 | 674 | 22394 | | 10 | 97, 13 | |
| 2797 | 179 | 81/06/28 | 0437:45 | 0438:35 | 115 | 83 | | | 2 | | |
| 2798 | 179 | 81/06/28 | 0508:25 | 0508:55 | 50 | 95 | | | 2 | | |
| 2799 | 179 | 81/06/28 | 0654:00 | 0654:35 | 120 | 85 | | | 2 | | |
| 2800 | 179 | 81/06/28 | 0714:50 | 0715:20 | 65 | 63 | | | 2 | | |
| 2801 | 180 | 81/06/29 | 0035:20 | 0040:40 | 765 | 1798 | 4.37E+05 | | 5 | 97, 14 | |
| 2802 | 180 | 81/06/29 | 0357:25 | 0357:45 | 40 | 76 | | | 2 | | |
| 2803 | 181 | 81/06/30 | 0213:55 | 0215:25 | 140 | 96 | | | 6 | | AX |
| 2804 | 181 | 81/06/30 | 0620:30 | 0621:40 | 200 | 122 | 6022 | | 2 | 97, 15 | |
| 2805 | 181 | 81/06/30 | 2037:35 | 2037:55 | 60 | 83 | | | 2 | | |
| 2806 | 181 | 81/06/30 | 2341:00 | 2341:35 | 115 | 83 | | | 2 | | |
| 2807 | 182 | 81/07/01 | 2028:25 | 2028:50 | 35 | 72 | | | 2 | | |
| 2808 | 183 | 81/07/02 | 0015:45 | 0016:45 | 90 | 77 | | | 4 | | |
| 2809 | 183 | 81/07/02 | 0156:35 | 0156:45 | 210 | 137 | 3586 | | 13 | 97, 16 | |
| 2810 | 183 | 81/07/02 | 0235:00 | 0236:10 | 90 | 136 | 1833 | | 2 | 97, 17 | |
| 2811 | 184 | 81/07/03 | 0111:05 | 0112:10 | 136 | 203 | 5826 | | 2 | 98, 1 | |
| 2812 | 184 | 81/07/03 | 0119:55 | 0124:50 | 602 | 1593 | 91923 | | 5 | 98, 1 | M |
| 2816 | 184 | 81/07/03 | 0139:45 | 0140:40 | 165 | 65 | | | 2 | | |
| 2813 | 184 | 81/07/03 | 0440:20 | 0443:45 | 438 | 149 | 7370 | | 2 | 98, 3 | |
| 2814 | 184 | 81/07/03 | 1907:00 | 1908:20 | 611 | 412 | 20798 | | 5 | 98, 4 | M |
| 2815 | 184 | 81/07/03 | 2357:05 | 2358:35 | 110 | 84 | | | 2 | | |
| 2817 | 185 | 81/07/04 | 0549:55 | 0550:10 | 40 | 67 | | | 2 | | |
| 2818 | 185 | 81/07/04 | 0554:10 | 0554:35 | 110 | 67 | | | 2 | | |
| 2819 | 185 | 81/07/04 | 2124:20 | 2127:30 | 733 | 319 | 55334 | | 10 | 98, 5 | |
| 2820 | 185 | 81/07/04 | 2345:10 | 2347:50 | 473 | 154 | 17640 | | 10 | 98, 6 | |
| 2821 | 186 | 81/07/05 | 1530:05 | 1530:25 | 194 | 116 | 3179 | | 2 | 98, 7 | |
| 2822 | 186 | 81/07/05 | 1952:35 | 1953:10 | 125 | 67 | | | 2 | | |
| 2823 | 187 | 81/07/06 | 2245:15 | 2251:35 | 619 | 130 | 13969 | | 10 | 98, 8 | |
| 2824 | 187 | 81/07/06 | 2328:05 | 2330:10 | 412 | 196 | 18743 | | 10 | 98, 9 | |
| 2825 | 188 | 81/07/07 | 0217:20 | 0220:45 | 422 | 89 | 7537 | | 2 | 98, 10 | |
| 2826 | 188 | 81/07/07 | 0243:57 | 0244:55 | 155 | 90 | | | 2 | | |
| 2827 | 188 | 81/07/07 | 2239:25 | 2242:00 | 195 | 84 | | | 5 | | AX |

ORIGINAL PAGE IS
OF POOR QUALITY

72

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2828 | 189 | 81/07/08 | 0034:50 | 0035:10 | 30 | 68 | | | 2 | | |
| 2829 | 189 | 81/07/08 | 1149:55 | 1150:05 | 21 | 117 | 276 | | 2 | 98, 11 | |
| 2830 | 189 | 81/07/08 | 1215:35 | 1217:30 | 145 | 79 | | | 2 | | |
| 2831 | 189 | 81/07/08 | 2050:45 | 2050:55 | 130 | 85 | | | 2 | | |
| 2832 | 189 | 81/07/08 | 2228:45 | 2233:05 | 749 | 170 | | | 5 | 98, 12 | AX |
| 2833 | 189 | 81/07/08 | 2307:45 | 2308:45 | 506 | 98 | | | 5 | 98, 13 | AX |
| 2834 | 190 | 81/07/09 | 0028:00 | 0029:30 | 197 | 83 | | | 2 | | AX |
| 2835 | 190 | 81/07/09 | 0714:30 | 0714:55 | 195 | 75 | | | 2 | | AX |
| 2836 | 190 | 81/07/09 | 1315:30 | 1316:45 | 351 | 487 | 32757 | | 2 | 98, 14 | M |
| 2837 | 190 | 81/07/09 | 1610:10 | 1611:00 | 85 | 100 | | | 2 | | |
| 2838 | 190 | 81/07/09 | 1740:30 | 1741:20 | 65 | 79 | | | 2 | | |
| 2839 | 190 | 81/07/09 | 2041:00 | 2045:15 | 521 | 214 | 29289 | | 10 | 98, 15 | SN |
| 2840 | 191 | 81/07/10 | 0655:00 | 0655:07 | 13 | 504 | 1348 | | 5 | 98, 16 | |
| 2841 | 191 | 81/07/10 | 1939:25 | 1941:25 | 135 | 70 | | | 2 | | |
| 2842 | 191 | 81/07/10 | 2211:45 | 2213:45 | 190 | 85 | | | 5 | | |
| 2843 | 192 | 81/07/11 | 1500:15 | 1501:35 | 175 | 66 | | | 2 | | |
| 2844 | 192 | 81/07/11 | 2342:25 | 2342:50 | 65 | 67 | | | 2 | | |
| 2845 | 192 | 81/07/11 | 2345:25 | 2346:00 | 70 | 90 | | | 2 | | |
| 2846 | 193 | 81/07/12 | 0211:10 | 0215:10 | 505 | 204 | 9909 | | 5 | 99, 1 | |
| 2847 | 193 | 81/07/12 | 0444:05 | 0444:10 | 15 | 78 | | | 2 | 99, 2 | |
| 2848 | 193 | 81/07/12 | 0446:30 | 0446:50 | 44 | 307 | 1882 | | 5 | 99, 2 | |
| 2849 | 193 | 81/07/12 | 1104:30 | 1104:55 | 40 | 88 | | | 2 | | |
| 2850 | 193 | 81/07/12 | 2233:15 | 2237:00 | 488 | 106 | 11982 | | 5 | 99, 3 | |
| 2851 | 194 | 81/07/13 | 1842:40 | 1843:35 | 80 | 79 | | | 2 | | |
| 2852 | 194 | 81/07/13 | 2224:00 | 2228:10 | 646 | 213 | 2113 | | 5 | 99, 4 | |
| 2853 | 195 | 81/07/14 | 2215:25 | 2219:30 | 619 | 104 | 15980 | | 5 | 99, 5 | |
| 2854 | 196 | 81/07/15 | 0247:50 | 0248:25 | 105 | 73 | | | 2 | | |
| 2855 | 196 | 81/07/15 | 0731:10 | 0731:45 | 138 | 118 | 2677 | | 2 | 99, 6 | |
| 2856 | 196 | 81/07/15 | 1642:50 | 1645:40 | 565 | 502 | 61942 | | 4 | 99, 7 | M |
| 2857 | 196 | 81/07/15 | 2005:05 | 2006:00 | 210 | 217 | 4441 | | 2 | 99, 9 | |
| 2858 | 196 | 81/07/15 | 2134:20 | 2135:20 | 157 | 61 | | | 2 | | |
| 2859 | 196 | 81/07/15 | 2157:55 | 2159:15 | 289 | 194 | 9838 | | 2 | 99, 10 | |
| 2860 | 197 | 81/07/16 | 0251:25 | 0252:10 | 135 | 96 | | | 2 | | |
| 2860 | 197 | 81/07/16 | 0418:25 | 0419:15 | 136 | 252 | 5342 | | 2 | 99, 11 | |
| 2861 | 197 | 81/07/16 | 1217:00 | 1217:10 | 115 | 63 | | | 2 | | |
| 2862 | 197 | 81/07/16 | 1509:45 | 1510:45 | 150 | 67 | | | 2 | | |
| 2863 | 197 | 81/07/16 | 1636:10 | 1641:10 | 492 | 1689 | 60851 | | 8 | 99, 12 | M |
| 2864 | 197 | 81/07/16 | 2023:40 | 2025:15 | 115 | 67 | | | 2 | | |
| 2865 | 197 | 81/07/16 | 2029:45 | 2030:35 | 90 | 68 | | | 2 | | |
| 2866 | 197 | 81/07/16 | 2038:55 | 2039:25 | 65 | 55 | | | 2 | | |
| 2867 | 197 | 81/07/16 | 2323:30 | 2325:40 | 288 | 106 | 5043 | | 2 | 99, 14 | |
| 2869 | 198 | 81/07/17 | 0345:15 | 0345:30 | 29 | 288 | 1976 | | 5 | 99, 15 | SA |
| 2870 | 198 | 81/07/17 | 0538:00 | 0542:25 | 348 | 71 | 2784 | | 2 | 99, 16 | |
| 2871 | 198 | 81/07/17 | 0708:50 | 0709:30 | 65 | 92 | | | 2 | | |
| 2872 | 198 | 81/07/17 | 0842:22 | 0842:35 | 2556 | 1100 | 5.02E+05 | | 10 | 100, 1 | M, SA |
| 2873 | 198 | 81/07/17 | 1145:10 | 1146:50 | 219 | 134 | 2994 | | 2 | 100, 2 | |
| 2874 | 198 | 81/07/17 | 1153:40 | 1155:50 | 174 | 173 | 3443 | | 2 | 100, 2 | M |
| 2875 | 198 | 81/07/17 | 1223:15 | 1225:20 | 614 | 1137 | 1.23E+05 | | 5 | 100, 3 | |
| 2876 | 198 | 81/07/17 | 1347:25 | 1347:45 | 55 | 99 | | | 2 | | |
| 2877 | 198 | 81/07/17 | 1505:30 | 1505:50 | 34 | 300 | 1502 | | 5 | 100, 4 | |
| 2878 | 198 | 81/07/17 | 1645:35 | 1646:00 | 40 | 65 | | | 2 | | |
| 2879 | 198 | 81/07/17 | 1648:45 | 1649:15 | 92 | 176 | 2699 | | 2 | 100, 5 | |
| 2880 | 198 | 81/07/17 | 1700:05 | 1703:10 | 679 | 385 | 47047 | | 4 | 100, 6 | |

ORIGINAL PAGE IS
OF POOR QUALITY

73

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|---------|
| 2881 | 198 | 81/07/17 | 2010:40 | 2010:50 | 15 | 74 | | | 2 | | |
| 2882 | 198 | 81/07/17 | 2012:20 | 2012:35 | 30 | 85 | | | 3 | | |
| 2883 | 198 | 81/07/17 | 2303:35 | 2304:00 | 45 | 67 | | | 2 | | |
| 2884 | 199 | 81/07/18 | 0030:25 | 0031:45 | 260 | 160 | 7579 | | 2 | 100, 7 | |
| 2885 | 199 | 81/07/18 | 0111:15 | 0111:40 | 55 | 76 | | | 2 | | |
| 2886 | 199 | 81/07/18 | 0215:10 | 0215:20 | 41 | 123 | 817 | | 2 | 100, 8 | |
| 2887 | 199 | 81/07/18 | 0404:45 | 0404:50 | 10 | 78 | | | 2 | | |
| 2888 | 199 | 81/07/18 | 0705:45 | 0709:40 | 643 | 980 | 1.43E+05 | | 5 | 100, 9 | M |
| 2889 | 199 | 81/07/18 | 0841:40 | 0841:55 | 35 | 98 | | | 2 | | |
| 2890 | 199 | 81/07/18 | 1140:10 | 1148:40 | 848 | 637 | | | 2 | 100, 11 | M,ND |
| 2891 | 199 | 81/07/18 | 1213:50 | 1214:20 | 184 | 158 | | | 2 | 100, 11 | DG |
| 2892 | 199 | 81/07/18 | 1222:30 | 1222:40 | 216 | 4982 | 51190 | | 10 | 100, 11 | |
| 2893 | 199 | 81/07/18 | 1307:05 | 1312:30 | 630 | 209 | 13908 | | 2 | 100, 12 | |
| 2894 | 199 | 81/07/18 | 1332:20 | 1332:35 | 30 | 78 | | | 2 | | |
| 2895 | 199 | 81/07/18 | 1403:40 | 1404:00 | 85 | 66 | | | 2 | | |
| 2896 | 199 | 81/07/18 | 1640:35 | 1641:30 | 106 | 124 | 2052 | | 5 | 100, 13 | |
| 2897 | 199 | 81/07/18 | 1759:30 | 1803:55 | 601 | 73 | | | 2 | 100, 14 | DG |
| 2898 | 199 | 81/07/18 | 1933:05 | 1933:20 | 25 | 71 | | | 2 | | |
| 2899 | 199 | 81/07/18 | 2015:25 | 2015:50 | 70 | 70 | | | 2 | | |
| 2900 | 199 | 81/07/18 | 2248:50 | 2249:35 | 174 | 123 | 3424 | | 2 | 100, 15 | |
| 2901 | 199 | 81/07/18 | 2259:35 | 2300:10 | 120 | 67 | | | 2 | | |
| 2902 | 200 | 81/07/19 | 0015:05 | 0015:20 | 106 | 142 | 1418 | | 2 | 100, 16 | |
| 2903 | 200 | 81/07/19 | 0021:45 | 0022:20 | 80 | 62 | | | 2 | 101, 1 | |
| 2904 | 200 | 81/07/19 | 0024:15 | 0024:30 | 47 | 291 | 1479 | | 3 | 101, 1 | |
| 2905 | 200 | 81/07/19 | 0150:45 | 0200:05 | 3258 | 5697 | 5.33E+05 | | 5 | 101, 2 | M |
| 2906 | 200 | 81/07/19 | 0417:30 | 0425:10 | 491 | 6358 | 1.68E+05 | | 6 | 101, 3 | EN |
| 2907 | 200 | 81/07/19 | 0506:20 | 0533:50 | 3255 | 34086 | | | 14 | 101, 4 | M,SA,EN |
| 2908 | 200 | 81/07/19 | 0735:10 | 0735:50 | 73 | 128 | 612 | | 2 | 101, 5 | |
| 2909 | 200 | 81/07/19 | 0825:15 | 0825:40 | 45 | 68 | | | 2 | | |
| 2910 | 200 | 81/07/19 | 1005:50 | 1006:15 | 40 | 72 | | | 2 | | |
| 2911 | 200 | 81/07/19 | 1020:05 | 1020:40 | 85 | 75 | | | 2 | | |
| 2912 | 200 | 81/07/19 | 1300:40 | 1301:45 | 105 | 69 | | | 2 | | |
| 2913 | 200 | 81/07/19 | 1336:35 | 1337:00 | 72 | 544 | 3280 | | 4 | 101, 6 | M |
| 2914 | 200 | 81/07/19 | 2239:45 | 2240:10 | 40 | 69 | | | 2 | | |
| 2915 | 200 | 81/07/19 | 2302:30 | 2303:00 | 60 | 71 | | | 2 | | |
| 2916 | 201 | 81/07/20 | 0217:25 | 0217:27 | 30 | 87 | | | 2 | | |
| 2917 | 201 | 81/07/20 | 0229:10 | 0230:35 | 227 | 227 | 4248 | | 2 | 101, 8 | |
| 2918 | 201 | 81/07/20 | 0343:00 | 0343:10 | 60 | 118 | 1706 | | 2 | 101, 9 | |
| 2919 | 201 | 81/07/20 | 0508:25 | 0508:55 | 60 | 66 | | | 2 | | |
| 2920 | 201 | 81/07/20 | 0719:35 | 0719:55 | 50 | 91 | | | 2 | | |
| 2921 | 201 | 81/07/20 | 0957:05 | 0957:25 | 81 | 132 | 2084 | | 2 | 101, 10 | |
| 2922 | 201 | 81/07/20 | 1145:40 | 1146:30 | 115 | 100 | | | 2 | | |
| 2923 | 201 | 81/07/20 | 1200:50 | 1201:25 | 60 | 60 | | | 2 | | |
| 2924 | 201 | 81/07/20 | 1211:25 | 1211:50 | 50 | 56 | | | 2 | | |
| 2925 | 201 | 81/07/20 | 1307:15 | 1318:30 | 2560 | 1540 | 7.54E+05 | | 9 | 101, 11 | EN |
| 2926 | 201 | 81/07/20 | 1736:45 | 1737:05 | 442 | 145 | 13865 | | 2 | 101, 12 | SN |
| 2927 | 201 | 81/07/20 | 2050:15 | 2050:25 | 40 | 60 | | | 2 | | |
| 2928 | 201 | 81/07/20 | 2110:35 | 2110:55 | 40 | 66 | | | 2 | | |
| 2929 | 201 | 81/07/20 | 2255:40 | 2256:10 | 45 | 62 | | | 2 | | |
| 2930 | 201 | 81/07/20 | 2309:00 | 2309:05 | 20 | 91 | | | 2 | | |
| 2951 | 202 | 81/07/21 | 0131:55 | 0135:50 | 447 | 171 | 14541 | | 2 | 102, 9 | |
| 2952 | 202 | 81/07/21 | 0141:30 | 0141:55 | 157 | 824 | 16166 | | 4 | 102, 9 | M |
| 2953 | 202 | 81/07/21 | 0151:10 | 0151:45 | 125 | 75 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 2931 | 202 | 81/07/21 | 0211:25 | 0212:15 | 75 | 64 | | | 2 | | |
| 2932 | 202 | 81/07/21 | 0230:05 | 0230:50 | 209 | 139 | 3282 | | 2 | 101, 13 | |
| 2933 | 202 | 81/07/21 | 0359:00 | 0404:10 | 600 | 419 | 35091 | | 5 | 101, 14 | M |
| 2934 | 202 | 81/07/21 | 0455:45 | 0456:10 | 94 | 260 | 3994 | | 2 | 101, 15 | |
| 2935 | 202 | 81/07/21 | 0634:00 | 0635:10 | 180 | 79 | | | 2 | | |
| 2936 | 202 | 81/07/21 | 0715:05 | 0715:35 | 105 | 186 | 7721 | | 4 | 101, 16 | M |
| 2937 | 202 | 81/07/21 | 0815:10 | 0815:35 | 73 | 149 | 1532 | | 2 | 102, 1 | |
| 2938 | 202 | 81/07/21 | 0835:40 | 0848:00 | 1227 | 307 | 44785 | | 2 | 102, 2 | EN |
| 2939 | 202 | 81/07/21 | 0945:15 | 0945:45 | 125 | 119 | 2171 | | 2 | 102, 3 | |
| 2940 | 202 | 81/07/21 | 1110:35 | 1111:35 | 160 | 85 | | | 2 | | |
| 2941 | 202 | 81/07/21 | 1124:25 | 1125:00 | 135 | 69 | | | 2 | | |
| 2942 | 202 | 81/07/21 | 1314:05 | 1315:15 | 120 | 104 | 2388 | | 2 | 102, 4 | |
| 2943 | 202 | 81/07/21 | 1609:35 | 1609:50 | 45 | 66 | | | 2 | | |
| 2944 | 202 | 81/07/21 | 1613:25 | 1614:40 | 195 | 72 | | | 3 | | |
| 2945 | 202 | 81/07/21 | 1621:10 | 1622:05 | 80 | 69 | | | 2 | | |
| 2946 | 202 | 81/07/21 | 1647:45 | 1648:45 | 282 | 240 | 12524 | | 2 | 102, 5 | M |
| 2947 | 202 | 81/07/21 | 1812:10 | 1812:30 | 35 | 59 | | | 2 | | |
| 2948 | 202 | 81/07/21 | 1905:30 | 1905:40 | 25 | 62 | | | 2 | | |
| 2949 | 202 | 81/07/21 | 1908:20 | 1910:00 | 188 | 762 | 28591 | | 3 | 102, 6 | M |
| 2950 | 202 | 81/07/21 | 2102:15 | 2102:35 | 65 | 119 | 1052 | | 2 | 102, 8 | |
| 2954 | 203 | 81/07/22 | 0325:10 | 0326:10 | 115 | 70 | | | 2 | | |
| 2955 | 203 | 81/07/22 | 0354:45 | 0355:15 | 93 | 120 | 1292 | | 2 | 102, 11 | |
| 2956 | 203 | 81/07/22 | 0800:35 | 0801:10 | 35 | 61 | | | 2 | | |
| 2957 | 203 | 81/07/22 | 0821:00 | 0823:25 | 321 | 142 | 5288 | | 2 | 102, 12 | |
| 2958 | 203 | 81/07/22 | 0837:00 | 0837:45 | 623 | 1283 | 84894 | | 4 | 102, 12 | M |
| 2959 | 203 | 81/07/22 | 1014:40 | 1015:10 | 60 | 82 | | | 2 | | |
| 2960 | 203 | 81/07/22 | 1018:30 | 1018:50 | 70 | 236 | 2979 | | 3 | 102, 13 | |
| 2961 | 203 | 81/07/22 | 1020:00 | 1020:13 | 30 | 79 | | | 2 | | |
| 2962 | 203 | 81/07/22 | 1604:15 | 1605:30 | 190 | 92 | | | 4 | | |
| 2963 | 203 | 81/07/22 | 1743:15 | 1744:40 | 135 | 79 | | | 2 | | |
| 2964 | 203 | 81/07/22 | 1905:25 | 1905:40 | 40 | 75 | | | 2 | | |
| 2965 | 203 | 81/07/22 | 2048:25 | 2048:35 | 63 | 125 | 1021 | | 2 | 102, 14 | |
| 2966 | 203 | 81/07/22 | 2356:50 | 2356:55 | 41 | 203 | 1496 | | 3 | 102, 15 | |
| 2967 | 204 | 81/07/23 | 0211:00 | 0211:50 | 184 | 687 | 20181 | | 4 | 102, 16 | |
| 2968 | 204 | 81/07/23 | 0307:35 | 0308:00 | 83 | 406 | 5446 | | 5 | 103, 1 | M |
| 2969 | 204 | 81/07/23 | 0438:05 | 0446:40 | 630 | 610 | 19405 | | 3 | 103, 3 | |
| 2970 | 204 | 81/07/23 | 0820:00 | 0821:00 | 120 | 65 | | | 2 | | |
| 2971 | 204 | 81/07/23 | 0927:15 | 0927:30 | 45 | 70 | | | 2 | | |
| 2972 | 204 | 81/07/23 | 1000:50 | 1000:55 | 124 | 848 | 8809 | | 6 | 103, 4 | |
| 2973 | 204 | 81/07/23 | 1102:15 | 1103:15 | 135 | 91 | | | 2 | | |
| 2974 | 204 | 81/07/23 | 1228:25 | 1231:30 | 530 | 79 | 6337 | | 3 | 103, 5 | |
| 2975 | 204 | 81/07/23 | 1405:30 | 1410:10 | 1005 | 82 | 77260 | | 3 | 103, 6 | |
| 2976 | 204 | 81/07/23 | 1452:35 | 1453:00 | 75 | 179 | 12117 | | 3 | 103, 7 | |
| 2977 | 204 | 81/07/23 | 1457:30 | 1457:40 | 15 | 60 | | | 2 | | |
| 2978 | 204 | 81/07/23 | 1548:15 | 1549:35 | 160 | 83 | | | 2 | | |
| 2979 | 204 | 81/07/23 | 1630:10 | 1634:50 | 405 | 73 | 5854 | | 7 | 103, 8 | EN |
| 2980 | 204 | 81/07/23 | 1920:45 | 1922:00 | 155 | 77 | | | 2 | | |
| 2981 | 204 | 81/07/23 | 2038:45 | 2039:30 | 175 | 81 | | | 2 | | |
| 2982 | 204 | 81/07/23 | 2045:50 | 2048:10 | 461 | 410 | 38416 | | 2 | 103, 9 | M |
| 2983 | 204 | 81/07/23 | 2103:30 | 2103:35 | 60 | 55 | | | 2 | | |
| 2984 | 205 | 81/07/24 | 0304:50 | 0305:55 | 162 | 214 | 5763 | | 2 | 103, 10 | |
| 2985 | 205 | 81/07/24 | 0506:35 | 0509:20 | 614 | 145 | 4736 | | 2 | 103, 11 | |
| 2986 | 205 | 81/07/24 | 0603:10 | 0603:25 | 70 | 87 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY.

75

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 2987 | 205 | 81/07/24 | 0622:40 | 0623:25 | 79 | 101 | 1150 | | 2 | 103, 12 | |
| 2988 | 205 | 81/07/24 | 0626:45 | 0627:15 | 88 | 114 | 522 | | 2 | | |
| 2989 | 205 | 81/07/24 | 0747:35 | 0748:30 | 404 | 806 | 77860 | | 5 | 103, 13 | M |
| 2990 | 205 | 81/07/24 | 1112:50 | 1114:25 | 128 | 120 | 1696 | | 2 | 103, 15 | |
| 2991 | 205 | 81/07/24 | 1229:45 | 1230:55 | 140 | 72 | | | 2 | | |
| 2992 | 205 | 81/07/24 | 1240:15 | 1241:05 | 116 | 142 | 1793 | | 2 | 103, 16 | |
| 2993 | 205 | 81/07/24 | 1408:25 | 1409:40 | 105 | 93 | | | 2 | | |
| 2994 | 205 | 81/07/24 | 2031:25 | 2032:05 | 94 | 261 | 4768 | | 4 | 104, 1 | |
| 2995 | 205 | 81/07/24 | 2343:10 | 2346:30 | 316 | 117 | 7884 | | 2 | 104, 2 | |
| 2996 | 206 | 81/07/25 | 0124:50 | 0125:10 | 60 | 69 | | | 2 | | |
| 2997 | 206 | 81/07/25 | 0158:05 | 0158:35 | 105 | 93 | | | 2 | | |
| 2998 | 206 | 81/07/25 | 0310:35 | 0311:10 | 83 | 121 | | | 2 | 104, 3 | |
| 2999 | 206 | 81/07/25 | 0634:55 | 0636:20 | 199 | 87 | | | 2 | | |
| 3000 | 206 | 81/07/25 | 0919:20 | 0921:20 | 277 | 785 | 28421 | | 4 | 104, 4 | |
| 3001 | 206 | 81/07/25 | 1059:40 | 1100:05 | 80 | 67 | | | 2 | | ND |
| 3002 | 206 | 81/07/25 | 1110:20 | 1110:30 | 135 | 192 | | | 2 | 104, 5 | ND |
| 3003 | 206 | 81/07/25 | 1710:40 | 1712:35 | 520 | 1656 | 1.76E+05 | | 10 | 104, 6 | M, AX |
| 3004 | 206 | 81/07/25 | 1726:10 | 1727:40 | 101 | 200 | 2245 | | 2 | | AX |
| 3005 | 206 | 81/07/25 | 1838:30 | 1851:00 | 2072 | 845 | 5.96E+05 | | 12 | 104, 7 | AX |
| 3006 | 206 | 81/07/25 | 2013:00 | 2014:25 | 141 | 136 | 3423 | | 2 | 104, 8 | AX |
| 3007 | 206 | 81/07/25 | 2025:00 | 2029:00 | 573 | 228 | 25140 | | 12 | 104, 8 | |
| 3008 | 206 | 81/07/25 | 2156:00 | 2156:05 | 25 | 76 | | | 2 | | |
| 3009 | 206 | 81/07/25 | 2201:30 | 2213:35 | 1059 | 93 | 18298 | | 2 | 104, 9 | AX |
| 3010 | 206 | 81/07/25 | 2336:50 | 2337:35 | 87 | 555 | 7134 | | 5 | 104, 10 | M |
| 3011 | 206 | 81/07/25 | 2345:25 | 2347:50 | 183 | 139 | 2419 | | 2 | 104, 10 | |
| 3012 | 206 | 81/07/25 | 2353:55 | 2355:35 | 125 | 63 | | | 2 | | |
| 3013 | 206 | 81/07/25 | 2358:05 | 2358:15 | 80 | 91 | | | 2 | | |
| 3014 | 207 | 81/07/26 | 0121:30 | 0123:10 | 230 | 466 | 11855 | | 3 | 104, 12 | M |
| 3015 | 207 | 81/07/26 | 0313:05 | 0313:15 | 23 | 167 | 543 | | 4 | 104, 13 | |
| 3016 | 207 | 81/07/26 | 0404:20 | 0411:30 | 712 | 3008 | 1.59E+05 | | 8 | 104, 14 | M, SN, ND |
| 3017 | 207 | 81/07/26 | 0547:55 | 0548:30 | 75 | 79 | | | 2 | | |
| 3018 | 207 | 81/07/26 | 0559:15 | 0602:00 | 559 | 901 | 45051 | | 5 | 104, 15 | M |
| 3019 | 207 | 81/07/26 | 0619:10 | 0619:40 | 81 | 157 | 1821 | | 4 | 104, 15 | |
| 3020 | 207 | 81/07/26 | 0724:05 | 0725:25 | 165 | 97 | | | 2 | | |
| 3021 | 207 | 81/07/26 | 0732:55 | 0733:45 | 312 | 65 | 1974 | | 2 | 104, 16 | |
| 3022 | 207 | 81/07/26 | 0755:20 | 0805:45 | 1095 | 6974 | 8.24E+05 | | 12 | 105, 1 | M |
| 3023 | 207 | 81/07/26 | 0850:30 | 0911:35 | 1476 | 1476 | 49581 | | 5 | 105, 2 | |
| 3024 | 207 | 81/07/26 | 0941:45 | 0943:00 | 125 | 80 | | | 2 | | |
| 3025 | 207 | 81/07/26 | 0947:25 | 0947:30 | 35 | 65 | | | 2 | | |
| 3026 | 207 | 81/07/26 | 1107:40 | 1108:10 | 50 | 188 | 1109 | | 4 | 105, 3 | |
| 3027 | 207 | 81/07/26 | 1111:05 | 1113:00 | 539 | 2614 | 2.54E+05 | | 10 | 105, 3 | |
| 3028 | 207 | 81/07/26 | 1215:45 | 1216:10 | 56 | 107 | 829 | | 2 | 105, 4 | |
| 3029 | 207 | 81/07/26 | 1249:40 | 1249:55 | 33 | 311 | 1746 | | 3 | 105, 5 | |
| 3030 | 207 | 81/07/26 | 1347:35 | 1352:25 | 668 | 56177 | 8.12E+06 | | 15 | 105, 6 | M |
| 3031 | 207 | 81/07/26 | 1528:10 | 1533:30 | 1079 | 217 | | | 2 | 105, 8 | ND |
| 3032 | 207 | 81/07/26 | 1847:40 | 1849:15 | 198 | 93 | | | 2 | | |
| 3033 | 207 | 81/07/26 | 2134:00 | 2134:10 | 210 | 222 | 9948 | | 2 | 105, 9 | SN |
| 3034 | 207 | 81/07/26 | 2203:00 | 2203:35 | 105 | 95 | | | 2 | | |
| 3035 | 207 | 81/07/26 | 2214:35 | 2215:10 | 110 | 71 | | | 2 | | |
| 3036 | 207 | 81/07/26 | 2218:15 | 2219:25 | 110 | 97 | | | 2 | | |
| 3037 | 207 | 81/07/26 | 2320:50 | 2327:45 | 683 | 345 | 16537 | | 5 | 105, 10 | |
| 3038 | 207 | 81/07/26 | 2347:15 | 2349:10 | 217 | 292 | 9316 | | 5 | 105, 10 | |
| 3039 | 208 | 81/07/27 | 0001:30 | 0002:35 | 105 | 75 | | | 2 | | ES |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3040 | 208 | 81/07/27 | 0102:55 | 0107:55 | 408 | 294 | 9353 | | 5 | 105, 11 | |
| 3041 | 208 | 81/07/27 | 0113:20 | 0114:30 | 169 | 600 | 27294 | | 2 | 105, 11 | |
| 3042 | 208 | 81/07/27 | 0312:50 | 0313:40 | 123 | 110 | 1845 | | 2 | 105, 12 | |
| 3043 | 208 | 81/07/27 | 0404:20 | 0407:15 | 212 | 223 | 3100 | | 4 | 105, 13 | |
| 3044 | 208 | 81/07/27 | 0412:30 | 0414:15 | 378 | 8554 | 1.74E+05 | | 9 | 105, 13 | M |
| 3045 | 208 | 81/07/27 | 0429:55 | 0430:05 | 25 | 62 | | | 2 | | |
| 3046 | 208 | 81/07/27 | 0433:55 | 0434:10 | 170 | 77 | | | 2 | | |
| 3047 | 208 | 81/07/27 | 0440:55 | 0441:15 | 195 | 77 | | | 2 | | |
| 3048 | 208 | 81/07/27 | 0600:45 | 0601:15 | 60 | 82 | | | 2 | | |
| 3049 | 208 | 81/07/27 | 0617:25 | 0617:55 | 69 | 451 | 1968 | | 5 | 105, 14 | M |
| 3050 | 208 | 81/07/27 | 0627:35 | 0630:05 | 162 | 102 | 2327 | | 2 | 105, 14 | EN |
| 3051 | 208 | 81/07/27 | 0721:50 | 0722:25 | 69 | 153 | 994 | | 2 | 105, 15 | |
| 3052 | 208 | 81/07/27 | 0725:50 | 0726:30 | 119 | 125 | 2247 | | 2 | 105, 15 | |
| 3053 | 208 | 81/07/27 | 0754:35 | 0755:10 | 65 | 62 | | | 2 | | |
| 3054 | 208 | 81/07/27 | 0927:50 | 0928:10 | 40 | 65 | | | 2 | | |
| 3055 | 208 | 81/07/27 | 0933:15 | 0933:40 | 60 | 72 | | | 2 | | |
| 3056 | 208 | 81/07/27 | 1156:40 | 1157:35 | 87 | 80 | | | 3 | | |
| 3057 | 208 | 81/07/27 | 1203:10 | 1203:25 | 35 | 80 | | | 3 | | |
| 3058 | 208 | 81/07/27 | 1223:50 | 1225:10 | 175 | 66 | | | 2 | | |
| 3059 | 208 | 81/07/27 | 1334:10 | 1343:50 | 1227 | 199 | 8473 | | 15 | 106, 1 | |
| 3060 | 208 | 81/07/27 | 1411:50 | 1416:35 | 676 | 78 | 10135 | | 5 | 106, 1 | |
| 3061 | 208 | 81/07/27 | 1515:56 | 1523:55 | 640 | 96 | 6727 | | 5 | 106, 2 | |
| 3062 | 208 | 81/07/27 | 1647:00 | 1647:55 | 110 | 97 | | | 2 | | |
| 3063 | 208 | 81/07/27 | 2201:35 | 2201:45 | 20 | 78 | | | 2 | | |
| 3064 | 209 | 81/07/28 | 0125:45 | 0126:45 | 84 | 133 | 1460 | | 2 | 106, 3 | |
| 3065 | 209 | 81/07/28 | 0216:25 | 0217:25 | 470 | 502 | 17522 | | 3 | 106, 4 | |
| 3066 | 209 | 81/07/28 | 0257:50 | 0300:20 | 291 | 129 | 4621 | | 2 | 106, 5 | |
| 3067 | 209 | 81/07/28 | 0712:50 | 0714:10 | 150 | 76 | | | 2 | | |
| 3068 | 209 | 81/07/28 | 0725:35 | 0726:15 | 427 | 256 | 13752 | | 3 | 106, 6 | |
| 3069 | 209 | 81/07/28 | 1020:40 | 1021:15 | 110 | 66 | | | 2 | | |
| 3070 | 209 | 81/07/28 | 1232:10 | 1232:20 | 55 | 77 | | | 2 | | |
| 3071 | 209 | 81/07/28 | 1402:50 | 1408:15 | 628 | 96 | 58758 | | 6 | 106, 7 | |
| 3072 | 209 | 81/07/28 | 1640:35 | 1641:15 | 110 | 90 | | | 2 | | |
| 3073 | 209 | 81/07/28 | 1950:00 | 1950:25 | 60 | 61 | | | 2 | | |
| 3074 | 209 | 81/07/28 | 2009:00 | 2010:00 | 598 | 11321 | 4.95E+05 | | 9 | 106, 8 | M |
| 3075 | 210 | 81/07/29 | 0240:30 | 0240:50 | 100 | 69 | | | 2 | | |
| 3076 | 210 | 81/07/29 | 0357:15 | 0357:40 | 55 | 65 | | | 2 | | |
| * 3077 | 210 | 81/07/29 | 2258:00 | 2258:05 | 25 | 402 | 2649 | | 5 | 106, 9 | M |
| * 3078 | 210 | 81/07/29 | 2305:15 | 2306:45 | 223 | 360 | 7145 | | 5 | 106, 9 | |
| * 3079 | 211 | 81/07/30 | 0053:40 | 0054:00 | 45 | 80 | | | 2 | | |
| * 3080 | 211 | 81/07/30 | 0512:35 | 0513:15 | 60 | 97 | | | 2 | | |
| * 3081 | 211 | 81/07/30 | 0541:25 | 0541:45 | 75 | 65 | | | 2 | | |
| * 3082 | 211 | 81/07/30 | 0650:50 | 0651:00 | 50 | 66 | | | 2 | | |
| * 3083 | 211 | 81/07/30 | 0733:25 | 0734:40 | 112 | 195 | 1545 | | 2 | 106, 11 | |
| * 3084 | 211 | 81/07/30 | 0901:15 | 0901:40 | 162 | 382 | 2905 | | 5 | 106, 12 | |
| * 3085 | 211 | 81/07/30 | 1008:35 | 1010:40 | 166 | 644 | 3031 | | 5 | 106, 13 | |
| * 3086 | 211 | 81/07/30 | 1046:00 | 1046:40 | 302 | 1530 | 33272 | | 4 | 106, 14 | |
| 3087 | 211 | 81/07/30 | 1135:50 | 1136:30 | 50 | 77 | | | 4 | | |
| 3088 | 211 | 81/07/30 | 1156:50 | 1157:20 | 60 | 57 | | | 2 | | |
| 3089 | 211 | 81/07/30 | 1307:40 | 1309:40 | 254 | 88 | 3874 | | 4 | 106, 15 | |
| 3090 | 211 | 81/07/30 | 1345:05 | 1351:10 | 632 | 129 | 16337 | | 9 | 106, 16 | |
| 3091 | 211 | 81/07/30 | 1449:20 | 1451:15 | 585 | 141 | 18715 | | 6 | 107, 1 | |
| 3092 | 211 | 81/07/30 | 1614:10 | 1617:00 | 1359 | 308 | 72359 | | 6 | 107, 2 | M |

ORIGINAL PAGE IS
OF POOR QUALITY

77

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3093 | 211 | 81/07/30 | 1947:00 | 1947:40 | 63 | 195 | 1256 | | 3 | 107, 4 | |
| 3094 | 211 | 81/07/30 | 1950:00 | 1951:15 | 238 | 446 | 9751 | | 5 | 107, 4 | M |
| 3095 | 211 | 81/07/30 | 2131:35 | 2133:45 | 290 | 928 | 28283 | | 5 | 107, 5 | M |
| 3096 | 211 | 81/07/30 | 2326:08 | 2325:45 | 132 | 403 | 18722 | | 3 | 107, 6 | M, ES |
| 3097 | 212 | 81/07/31 | 0038:10 | 0038:15 | 20 | 358 | 1361 | | 5 | 107, 7 | |
| 3098 | 212 | 81/07/31 | 0050:55 | 0053:15 | 337 | 1777 | 92528 | | 7 | 107, 8 | |
| 3099 | 212 | 81/07/31 | 0326:35 | 0327:40 | 230 | 388 | 12866 | | 4 | 107, 9 | M |
| 3100 | 212 | 81/07/31 | 0344:10 | 0345:15 | 145 | 70 | | | 2 | | |
| 3101 | 212 | 81/07/31 | 0405:20 | 0406:05 | 234 | 139 | 5144 | | 2 | 107, 11 | |
| 3102 | 212 | 81/07/31 | 0518:25 | 0518:35 | 80 | 111 | 1341 | | 2 | 107, 12 | |
| 3103 | 212 | 81/07/31 | 0520:45 | 0521:10 | 55 | 92 | | | 2 | 107, 12 | |
| 3104 | 212 | 81/07/31 | 0555:20 | 0556:05 | 88 | 729 | 13768 | | 8 | 107, 13 | |
| 3105 | 212 | 81/07/31 | 0840:55 | 0841:55 | 140 | 65 | | | 2 | | |
| 3106 | 212 | 81/07/31 | 1120:45 | 1121:30 | 90 | 98 | | | 3 | | |
| 3107 | 212 | 81/07/31 | 1314:20 | 1314:55 | 60 | 67 | | | 2 | | |
| 3108 | 212 | 81/07/31 | 1940:20 | 1940:55 | 65 | 81 | | | 2 | | |
| 3109 | 212 | 81/07/31 | 2252:55 | 2254:15 | 110 | 98 | | | 2 | | |
| 3110 | 213 | 81/08/01 | 0050:55 | 0051:30 | 45 | 91 | | | 2 | | |
| 3111 | 213 | 81/08/01 | 0457:30 | 0458:00 | 50 | 76 | | | 2 | | |
| 3112 | 213 | 81/08/01 | 0807:25 | 0808:35 | 167 | 126 | 4167 | | 2 | 107, 14 | |
| 3113 | 213 | 81/08/01 | 1116:25 | 1118:30 | 209 | 181 | 11438 | | 13 | 107, 15 | |
| 3114 | 213 | 81/08/01 | 1249:35 | 1251:50 | 235 | 106 | 4876 | | 4 | 107, 16 | |
| 3115 | 213 | 81/08/01 | 1438:10 | 1438:55 | 80 | 82 | | | 2 | | |
| 3116 | 213 | 81/08/01 | 2227:55 | 2229:25 | 169 | 112 | 2798 | | 2 | 108, 1 | |
| 3117 | 213 | 81/08/01 | 2258:05 | 2258:25 | 80 | 82 | | | 2 | | |
| 3118 | 214 | 81/08/02 | 0039:35 | 0040:00 | 45 | 95 | | | 2 | | |
| 3119 | 214 | 81/08/02 | 0135:05 | 0135:25 | 38 | 142 | 822 | | 2 | 108, 2 | |
| 3120 | 214 | 81/08/02 | 0339:25 | 0339:45 | 60 | 94 | | | 2 | | |
| 3121 | 214 | 81/08/02 | 0634:25 | 0637:00 | 290 | 150 | 4879 | | 2 | 108, 3 | |
| 3122 | 214 | 81/08/02 | 1240:45 | 1241:15 | 198 | 85 | | | 3 | | AX |
| 3123 | 214 | 81/08/02 | 2110:40 | 2111:20 | 75 | 70 | | | 2 | | |
| 3124 | 215 | 81/08/03 | 0023:40 | 0025:50 | 135 | 65 | | | 2 | | |
| 3125 | 215 | 81/08/03 | 0137:00 | 0137:25 | 57 | 150 | 1722 | | 4 | 108, 4 | |
| 3126 | 215 | 81/08/03 | 0140:05 | 0140:55 | 105 | 81 | | | 2 | | |
| 3127 | 215 | 81/08/03 | 0305:30 | 0306:35 | 195 | 74 | | | 2 | | |
| 3128 | 215 | 81/08/03 | 0917:40 | 0918:40 | 155 | 68 | | | 3 | | |
| 3129 | 215 | 81/08/03 | 0942:30 | 0943:45 | 120 | 79 | | | 3 | | |
| 3130 | 215 | 81/08/03 | 0957:35 | 1001:10 | 804 | 157 | 16878 | | 2 | 108, 5 | |
| 3131 | 215 | 81/08/03 | 1056:05 | 1059:10 | 353 | 180 | 16968 | | 7 | 108, 6 | M |
| 3132 | 215 | 81/08/03 | 1118:30 | 1119:30 | 752 | 279 | 21614 | | 5 | 108, 6 | |
| 3133 | 215 | 81/08/03 | 1138:40 | 1139:35 | 60 | 61 | | | 2 | | |
| 3134 | 215 | 81/08/03 | 1244:25 | 1248:50 | 382 | 162 | 9187 | | 3 | 108, 7 | |
| 3135 | 215 | 81/08/03 | 1601:15 | 1604:45 | 250 | 128 | 4723 | | 2 | 108, 8 | |
| 3136 | 215 | 81/08/03 | 1857:30 | 1858:05 | 130 | 74 | | | 2 | | |
| 3137 | 215 | 81/08/03 | 1921:00 | 1921:25 | 45 | 70 | | | 2 | | |
| 3138 | 215 | 81/08/03 | 2026:20 | 2026:20 | 662 | 1270 | 1.90E+05 | 3257 | 3 | 108, 9 | M, SN |
| 3139 | 215 | 81/08/03 | 2221:55 | 2224:25 | 175 | 86 | | | 2 | | |
| 3140 | 215 | 81/08/03 | 2336:35 | 2340:45 | 1160 | 440 | 1.13E+05 | 3257 | 4 | 108, 11 | M, SN |
| 3141 | 216 | 81/08/04 | 0132:10 | 0133:40 | 284 | 74 | 3490 | | 2 | 108, 13 | |
| 3142 | 216 | 81/08/04 | 0206:55 | 0207:35 | 71 | 194 | 1195 | | 2 | 108, 14 | |
| 3143 | 216 | 81/08/04 | 0210:30 | 0212:20 | 140 | 75 | | | 2 | | |
| 3144 | 216 | 81/08/04 | 0458:15 | 0501:50 | 422 | 75 | 3436 | | 2 | 108, 15 | |
| 3145 | 216 | 81/08/04 | 0622:35 | 0622:55 | 25 | 65 | | | 2 | | |

ORIGINAL LIST OF
OF POOR QUALITY

78

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 3146 | 216 | 81/08/04 | 0628:15 | 0628:25 | 60 | 74 | | | 2 | | |
| 3147 | 216 | 81/08/04 | 0652:30 | 0654:00 | 129 | 388 | 3419 | | 3 | 108, 16 | M |
| 3148 | 216 | 81/08/04 | 0656:10 | 0657:15 | 190 | 2469 | 21756 | 3257 | 8 | 108, 16 | M |
| 3149 | 216 | 81/08/04 | 0809:45 | 0810:25 | 195 | 340 | 13111 | | 4 | 109, 1 | |
| 3150 | 216 | 81/08/04 | 0822:05 | 0824:35 | 180 | 92 | | | 2 | | |
| 3151 | 216 | 81/08/04 | 0949:05 | 0951:45 | 288 | 131 | 3797 | | 2 | 109, 2 | |
| 3152 | 216 | 81/08/04 | 1004:00 | 1006:05 | 155 | 73 | | | 2 | | |
| 3153 | 216 | 81/08/04 | 1046:30 | 1050:30 | 421 | 118 | 10168 | | 5 | 109, 3 | |
| 3154 | 216 | 81/08/04 | 1106:40 | 1107:40 | 195 | 91 | | | 2 | | |
| 3155 | 216 | 81/08/04 | 1115:50 | 1117:20 | 165 | 67 | | | 2 | | |
| 3156 | 216 | 81/08/04 | 1119:52 | 1122:05 | 170 | 127 | 1033 | | 2 | 109, 4 | |
| 3157 | 216 | 81/08/04 | 1129:30 | 1130:45 | 182 | 434 | 12360 | 3257 | 3 | 109, 5 | |
| 3158 | 216 | 81/08/04 | 1221:25 | 1222:50 | 552 | 87 | 9559 | | 5 | 109, 6 | |
| 3159 | 216 | 81/08/04 | 1451:10 | 1451:20 | 100 | 90 | | | 5 | | AX |
| 3160 | 216 | 81/08/04 | 1531:05 | 1531:40 | 83 | 226 | 2038 | | 3 | 109, 7 | |
| 3161 | 216 | 81/08/04 | 1842:25 | 1843:30 | 112 | 105 | 889 | | 2 | 109, 8 | |
| 3162 | 216 | 81/08/04 | 1854:35 | 1854:45 | 100 | 113 | 560 | | 2 | 109, 8 | |
| 3163 | 216 | 81/08/04 | 2041:50 | 2043:15 | 198 | 78 | | | 2 | | |
| 3164 | 216 | 81/08/04 | 2054:50 | 2055:40 | 65 | 61 | | | 2 | | |
| 3165 | 216 | 81/08/04 | 2332:00 | 2332:25 | 120 | 104 | 1194 | | 2 | 109, 9 | |
| 3166 | 216 | 81/08/04 | 2345:55 | 2346:15 | 70 | 73 | | | 2 | | |
| 3167 | 216 | 81/08/04 | 2347:40 | 2349:20 | 165 | 77 | | | 2 | | |
| 3168 | 216 | 81/08/04 | 2351:55 | 2352:15 | 55 | 159 | 982 | | 2 | 109, 10 | |
| 3169 | 216 | 81/08/04 | 2355:30 | 2355:40 | 55 | 69 | | | 2 | | |
| 3170 | 216 | 81/08/04 | 2359:20 | 2359:30 | 85 | 84 | | | 2 | | |
| 3171 | 217 | 81/08/05 | 0114:15 | 0114:40 | 100 | 60 | | | 2 | | |
| 3172 | 217 | 81/08/05 | 0244:55 | 0245:15 | 105 | 93 | | | 3 | | |
| 3173 | 217 | 81/08/05 | 0737:55 | 0739:00 | 245 | 1411 | 19363 | 3257 | 5 | 109, 11 | M |
| 3174 | 217 | 81/08/05 | 1053:25 | 1053:50 | 45 | 99 | | | 2 | | |
| 3175 | 217 | 81/08/05 | 1212:00 | 1216:20 | 689 | 88 | 12256 | | 5 | 109, 13 | SN |
| 3176 | 217 | 81/08/05 | 1541:55 | 1543:10 | 223 | 224 | 6637 | | 2 | 109, 14 | |
| 3177 | 217 | 81/08/05 | 2041:25 | 2041:35 | 25 | 72 | | | 2 | | |
| 3178 | 218 | 81/08/06 | 0424:25 | 0424:50 | 50 | 62 | | | 2 | | |
| 3179 | 218 | 81/08/06 | 0458:30 | 0458:45 | 25 | 87 | | | 2 | | |
| 3180 | 218 | 81/08/06 | 0920:25 | 0920:30 | 25 | 62 | | | 2 | | |
| 3181 | 218 | 81/08/06 | 0924:10 | 0924:30 | 53 | 136 | 1255 | | 3 | 109, 15 | |
| 3182 | 218 | 81/08/06 | 1031:20 | 1032:20 | 75 | 368 | 2587 | | 4 | 109, 16 | M |
| 3183 | 218 | 81/08/06 | 1352:25 | 1352:50 | 50 | 70 | | | 2 | | |
| 3184 | 219 | 81/08/07 | 0737:00 | 0737:40 | 190 | 65 | | | 2 | | |
| 3185 | 219 | 81/08/07 | 1200:05 | 1202:15 | 145 | 74 | | | 3 | | |
| 3186 | 219 | 81/08/07 | 1951:50 | 1952:50 | 2570 | 125 | | 3257 | 3 | 110, 1 | M, SN, ES |
| 3187 | 220 | 81/08/08 | 1329:00 | 1329:10 | 16 | 253 | 1409 | | 3 | 110, 2 | |
| 3188 | 220 | 81/08/08 | 2125:35 | 2133:20 | 780 | 192 | 22150 | | 2 | 110, 3 | |
| 3189 | 220 | 81/08/08 | 2320:45 | 2321:05 | 50 | 69 | | | 2 | | |
| 3190 | 221 | 81/08/09 | 0254:05 | 0254:35 | 60 | 74 | | | 2 | | |
| 3191 | 221 | 81/08/09 | 0256:35 | 0257:10 | 75 | 94 | | | 2 | | |
| 3192 | 221 | 81/08/09 | 1459:05 | 1500:15 | 296 | 186 | 11929 | 3257 | 5 | 110, 4 | |
| 3193 | 222 | 81/08/10 | 0657:05 | 0658:55 | 579 | 12265 | 4.59E+05 | 3257 | 10 | 110, 5 | |
| 3194 | 222 | 81/08/10 | 0724:35 | 0725:05 | 118 | 109 | 1377 | | 2 | 110, 6 | |
| 3195 | 222 | 81/08/10 | 0745:05 | 0745:45 | 86 | 1847 | 27426 | | 10 | 110, 7 | |
| 3196 | 222 | 81/08/10 | 2243:45 | 2244:30 | 65 | 69 | | | 2 | | |
| 3197 | 223 | 81/08/11 | 0043:05 | 0043:45 | 75 | 68 | | | 2 | | |
| 3198 | 223 | 81/08/11 | 0150:10 | 0150:30 | 115 | 89 | | 3257 | 2 | | |

ORIGINAL PAGE 15
OF POOR QUALITY

79

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3199 | 223 | 81/08/11 | 0158:50 | 0159:30 | 95 | 99 | | | 2 | | |
| 3200 | 223 | 81/08/11 | 1434:00 | 1448:55 | 1007 | 744 | 1.16E+05 | 3257 | 5 | 110, 8 | M, ES |
| 3201 | 223 | 81/08/11 | 1807:10 | 1808:25 | 180 | 74 | | | 2 | | |
| 3202 | 223 | 81/08/11 | 2116:55 | 2117:05 | 25 | 63 | | | 2 | | |
| 3203 | 224 | 81/08/12 | 0106:00 | 0106:45 | 60 | 67 | | | 2 | | |
| 3204 | 224 | 81/08/12 | 0219:10 | 0219:45 | 105 | 63 | | | 2 | | |
| 3205 | 224 | 81/08/12 | 0221:40 | 0222:35 | 175 | 89 | | | 2 | | |
| 3206 | 224 | 81/08/12 | 0229:20 | 0232:10 | 713 | 557 | 48672 | 3257 | 5 | 110, 9 | M |
| 3207 | 224 | 81/08/12 | 0338:00 | 0338:15 | 95 | 67 | | | 2 | | |
| 3208 | 224 | 81/08/12 | 0345:15 | 0345:50 | 279 | 252 | 7281 | | 5 | 110, 10 | |
| 3209 | 224 | 81/08/12 | 0417:30 | 0417:45 | 148 | 887 | 19316 | | 7 | 110, 11 | |
| 3210 | 224 | 81/08/12 | 0551:15 | 0551:30 | 40 | 76 | | | 2 | | |
| 3211 | 224 | 81/08/12 | 0628:50 | 0629:15 | 1498 | 19518 | 2.01E+06 | 3257 | 5 | 110, 12 | M, SN |
| 3212 | 224 | 81/08/12 | 1025:20 | 1026:15 | 218 | 292 | 9273 | | 3 | 110, 13 | M |
| 3213 | 224 | 81/08/12 | 1034:35 | 1035:10 | 50 | 67 | | | 2 | | |
| 3214 | 224 | 81/08/12 | 1253:40 | 1254:30 | 80 | 56 | | | 2 | | |
| 3215 | 224 | 81/08/12 | 1256:30 | 1256:45 | 45 | 54 | | | 2 | | |
| 3216 | 224 | 81/08/12 | 1300:15 | 1300:35 | 71 | 176 | 1292 | | 3 | 110, 15 | M |
| 3217 | 224 | 81/08/12 | 2058:15 | 2059:10 | 85 | 79 | | | 2 | | |
| 3218 | 224 | 81/08/12 | 2100:20 | 2100:35 | 110 | 80 | | | 2 | | |
| 3219 | 224 | 81/08/12 | 2103:30 | 2110:50 | 1236 | 458 | 1.23E+05 | | 3 | 110, 16 | |
| 3220 | 225 | 81/08/13 | 0003:30 | 0003:55 | 40 | 68 | | | 2 | | |
| 3221 | 225 | 81/08/13 | 0007:35 | 0007:40 | 35 | 72 | | | 2 | | |
| 3222 | 225 | 81/08/13 | 0029:40 | 0031:20 | 313 | 160 | 8859 | | 2 | 111, 1 | |
| 3223 | 225 | 81/08/13 | 0207:30 | 0210:20 | 199 | 69 | | | 2 | | |
| 3224 | 225 | 81/08/13 | 0341:55 | 0342:25 | 277 | 304 | 18248 | | 4 | 111, 2 | ND |
| 3225 | 225 | 81/08/13 | 0400:40 | 0400:55 | 32 | 134 | 1117 | | 8 | 111, 2 | |
| 3226 | 225 | 81/08/13 | 0402:30 | 0404:05 | 180 | 62 | | | 2 | | |
| 3227 | 225 | 81/08/13 | 0505:25 | 0507:20 | 180 | 71 | | | 2 | | |
| 3228 | 225 | 81/08/13 | 0637:25 | 0637:45 | 83 | 133 | | | 2 | | |
| 3229 | 225 | 81/08/13 | 0715:05 | 0716:30 | 487 | 3262 | 1.45E+05 | 3257 | 2 | 111, 4 | |
| 3230 | 225 | 81/08/13 | 1159:15 | 1200:15 | 479 | 315 | 11969 | | 7 | 111, 3 | |
| 3231 | 225 | 81/08/13 | 1335:20 | 1338:00 | 503 | 297 | 28465 | | 2 | 111, 5 | |
| 3232 | 225 | 81/08/13 | 1609:30 | 1609:45 | 30 | 81 | | | 2 | 111, 6 | |
| 3233 | 225 | 81/08/13 | 2134:55 | 2137:40 | 342 | 342 | 17185 | | 2 | 111, 7 | |
| 3234 | 225 | 81/08/13 | 2237:40 | 2237:55 | 46 | 322 | 2466 | | 3 | 111, 8 | M |
| 3235 | 225 | 81/08/13 | 2309:10 | 2309:25 | 25 | 95 | | | 2 | | |
| 3236 | 226 | 81/08/14 | 0015:00 | 0015:40 | 40 | 63 | | | 2 | | |
| 3237 | 226 | 81/08/14 | 0024:20 | 0048:25 | 1774 | 501 | 40521 | | 6 | 111, 10 | EN |
| 3238 | 226 | 81/08/14 | 0504:15 | 0504:25 | 55 | 70 | | | 2 | | |
| 3239 | 226 | 81/08/14 | 0511:55 | 0512:35 | 122 | 189 | 2404 | | 2 | 111, 11 | |
| 3240 | 226 | 81/08/14 | 0518:10 | 0521:00 | 473 | 231 | 18957 | | 2 | 111, 11 | |
| 3241 | 226 | 81/08/14 | 0621:35 | 0635:45 | 1327 | 292 | 39135 | | 14 | 111, 12 | M |
| 3242 | 226 | 81/08/14 | 0826:05 | 0826:40 | 105 | 66 | | | 2 | | |
| 3243 | 226 | 81/08/14 | 1320:05 | 1320:25 | 35 | 94 | | | 2 | | |
| 3244 | 226 | 81/08/14 | 1547:30 | 1548:00 | 70 | 79 | | | 2 | | |
| 3245 | 226 | 81/08/14 | 1823:35 | 1825:10 | 103 | 287 | 5436 | 3257 | 2 | 111, 14 | EN |
| 3246 | 226 | 81/08/14 | 2309:20 | 2310:30 | 73 | 129 | 1187 | | 2 | 111, 15 | EN |
| 3247 | 227 | 81/08/15 | 0125:45 | 0127:20 | 130 | 77 | | | 2 | | |
| 3248 | 227 | 81/08/15 | 0136:30 | 0137:55 | 356 | 135 | 8726 | | 5 | 111, 16 | |
| 3249 | 227 | 81/08/15 | 0255:50 | 0256:30 | 111 | 115 | 2310 | | 2 | 112, 1 | M |
| 3250 | 227 | 81/08/15 | 0640:35 | 0645:20 | 438 | 212 | 23391 | | 2 | 112, 3 | |
| 3251 | 228 | 81/08/16 | 1725:15 | 1727:30 | 229 | 322 | 17318 | 3257 | 5 | 112, 4 | M |

ORIGINAL TABLES OF POOR QUALITY

80

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3252 | 228 | 81/08/16 | 1934:40 | 1935:55 | 198 | 69 | | | | | |
| 3253 | 228 | 81/08/16 | 2234:25 | 2235:15 | 190 | 85 | | | 2 | | |
| 3254 | 228 | 81/08/16 | 2349:00 | 2349:50 | 175 | 85 | | | 2 | | |
| 3255 | 229 | 81/08/17 | 0024:25 | 0025:25 | 95 | 78 | | | 2 | | |
| 3256 | 229 | 81/08/17 | 0250:20 | 0251:40 | 462 | 1110 | 62131 | 3257 | 4 | | AX |
| 3257 | 229 | 81/08/17 | 1349:35 | 1350:15 | 120 | 88 | | | 8 | 112, 5 | M |
| 3258 | 229 | 81/08/17 | 2331:40 | 2332:45 | 155 | 88 | | | 2 | | |
| 3259 | 230 | 81/08/18 | 0504:10 | 0504:45 | 292 | 114 | 4968 | | 2 | | |
| 3260 | 230 | 81/08/18 | 0640:15 | 0641:00 | 190 | 72 | | | 2 | 112, 7 | |
| 3261 | 230 | 81/08/18 | 1115:30 | 1117:05 | 216 | 495 | 11714 | | 2 | | |
| 3262 | 230 | 81/08/18 | 1121:35 | 1121:45 | 35 | 74 | | | 5 | 112, 8 | M |
| 3263 | 230 | 81/08/18 | 1614:15 | 1614:55 | 75 | 78 | | | 2 | | |
| 3264 | 230 | 81/08/18 | 1741:25 | 1741:55 | 115 | 61 | | | 2 | | |
| 3265 | 231 | 81/08/19 | 0322:10 | 0323:05 | 105 | 76 | | | 2 | | |
| 3266 | 231 | 81/08/19 | 1238:50 | 1239:05 | 40 | 69 | | | 2 | | |
| 3267 | 231 | 81/08/19 | 1246:05 | 1251:55 | 697 | 163 | 21469 | | 2 | | |
| 3268 | 231 | 81/08/19 | 1551:05 | 1551:20 | 50 | 83 | | | 2 | 112, 9 | |
| 3269 | 231 | 81/08/19 | 2136:25 | 2138:00 | 280 | 127 | 8488 | | 2 | | |
| 3270 | 232 | 81/08/20 | 0225:35 | 0226:30 | 183 | 118 | 2892 | | 6 | 112, 10 | |
| 3271 | 232 | 81/08/20 | 0415:25 | 0416:00 | 155 | 69 | | | 2 | 112, 11 | |
| 3272 | 232 | 81/08/20 | 1224:55 | 1225:20 | 35 | 75 | | | 2 | | |
| 3273 | 232 | 81/08/20 | 1327:45 | 1328:05 | 61 | 119 | 1201 | | 2 | | |
| 3274 | 232 | 81/08/20 | 1553:45 | 1554:40 | 148 | 185 | 2969 | | 2 | 112, 12 | M |
| 3275 | 232 | 81/08/20 | 1634:25 | 1635:05 | 90 | 61 | | | 2 | 112, 13 | |
| 3276 | 232 | 81/08/20 | 1845:55 | 1847:35 | 226 | 168 | 10771 | | 2 | | |
| 3277 | 232 | 81/08/20 | 2032:25 | 2033:05 | 40 | 83 | | | 2 | 112, 14 | |
| 3278 | 232 | 81/08/20 | 2347:30 | 2349:25 | 203 | 169 | 3386 | | 2 | | |
| 3279 | 233 | 81/08/21 | 0057:05 | 0057:40 | 57 | 117 | 1121 | | 6 | 112, 15 | |
| 3280 | 233 | 81/08/21 | 0212:45 | 0213:40 | 196 | 923 | 32068 | | 2 | 112, 16 | |
| 3281 | 233 | 81/08/21 | 0410:55 | 0411:55 | 75 | 79 | | | 4 | 113, 1 | M |
| 3282 | 233 | 81/08/21 | 0433:15 | 0434:45 | 267 | 373 | 12178 | | 2 | | |
| 3283 | 233 | 81/08/21 | 0720:55 | 0721:55 | 124 | 113 | 2179 | | 4 | 113, 3 | |
| 3284 | 233 | 81/08/21 | 0853:05 | 0853:05 | 838 | 530 | 1.16E+05 | | 2 | 113, 4 | M |
| 3285 | 233 | 81/08/21 | 1212:00 | 1212:25 | 105 | 75 | | | 8 | 113, 6 | M, SA |
| 3286 | 233 | 81/08/21 | 1221:50 | 1222:10 | 50 | 65 | | | 2 | | |
| 3287 | 233 | 81/08/21 | 1627:25 | 1627:35 | 179 | 1486 | 16666 | | 2 | | |
| 3288 | 233 | 81/08/21 | 1714:00 | 1715:10 | 122 | 122 | 2384 | | 6 | 113, 7 | |
| 3289 | 233 | 81/08/21 | 1722:35 | 1724:50 | 195 | 62 | | | 2 | 113, 8 | |
| 3290 | 233 | 81/08/21 | 2122:40 | 2123:15 | 85 | 85 | | | 2 | | |
| 3291 | 233 | 81/08/21 | 2125:30 | 2126:15 | 70 | 69 | | | 2 | | |
| 3292 | 233 | 81/08/21 | 2312:35 | 2314:10 | 190 | 67 | | | 2 | | |
| 3293 | 233 | 81/08/21 | 2338:05 | 2342:30 | 305 | 72 | 3247 | | 2 | | |
| 3294 | 234 | 81/08/22 | 0111:15 | 0112:15 | 70 | 97 | | | 3 | 113, 9 | AX |
| 3295 | 234 | 81/08/22 | 0241:45 | 0243:15 | 129 | 140 | 3322 | | 2 | | ND |
| 3296 | 234 | 81/08/22 | 0358:15 | 0359:40 | 150 | 96 | | | 3 | 113, 10 | |
| 3297 | 234 | 81/08/22 | 0732:50 | 0734:10 | 125 | 92 | | | 2 | | |
| 3298 | 234 | 81/08/22 | 0846:30 | 0846:40 | 25 | 157 | 509 | | 2 | | |
| 3299 | 234 | 81/08/22 | 1211:55 | 1212:55 | 90 | 85 | | | 2 | 113, 11 | |
| 3300 | 234 | 81/08/22 | 1442:40 | 1443:45 | 190 | 107 | 1567 | | 2 | | |
| 3301 | 234 | 81/08/22 | 1453:50 | 1455:10 | 93 | 155 | 4717 | | 2 | 113, 12 | |
| 3302 | 235 | 81/08/23 | 0229:00 | 0229:35 | 55 | 84 | | | 2 | 113, 13 | ES |
| 3303 | 235 | 81/08/23 | 0851:50 | 0853:55 | 140 | 70 | | | 2 | | |
| 3304 | 235 | 81/08/23 | 1531:45 | 1532:00 | 30 | 102 | | | 2 | | |

ORIGINAL
OF PAGE

81

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3305 | 235 | 81/08/23 | 2055:10 | 2057:15 | 651 | 193 | 27294 | | 6 | 113, 14 | AX |
| 3306 | 235 | 81/08/23 | 2116:45 | 2117:35 | 115 | 57 | | | 2 | | |
| 3307 | 235 | 81/08/23 | 2141:20 | 2142:35 | 130 | 73 | | | 2 | | |
| 3308 | 235 | 81/08/23 | 2231:10 | 2235:45 | 872 | 238 | 85460 | | 5 | 113, 15 | AX |
| 3309 | 235 | 81/08/23 | 2310:25 | 2322:45 | 896 | 420 | 81300 | | 11 | 113, 16 | |
| 3310 | 236 | 81/08/24 | 0044:50 | 0101:20 | 1305 | 592 | 1.29E+05 | | 15 | 114, 1 | M, AX |
| 3311 | 236 | 81/08/24 | 0147:00 | 0149:50 | 333 | 143 | 9666 | | 4 | 114, 2 | AX |
| 3312 | 236 | 81/08/24 | 0233:34 | 0233:45 | 35 | 79 | | | 2 | | |
| 3313 | 236 | 81/08/24 | 0325:25 | 0326:00 | 122 | 344 | 13830 | | 4 | 114, 3 | |
| 3314 | 236 | 81/08/24 | 1004:05 | 1004:45 | 73 | 115 | 1786 | | 2 | 114, 4 | SA |
| 3315 | 236 | 81/08/24 | 1907:20 | 1904:45 | 456 | 145 | 15389 | | 6 | 114, 5 | |
| 3316 | 236 | 81/08/24 | 2045:45 | 2047:00 | 615 | 365 | 37281 | | 5 | 114, 6 | |
| 3317 | 236 | 81/08/24 | 2129:30 | 2130:25 | 150 | 76 | | | 4 | | |
| 3318 | 236 | 81/08/24 | 2228:15 | 2231:00 | 265 | 89 | 14514 | | 2 | 114, 7 | |
| 3319 | 236 | 81/08/24 | 2307:10 | 2313:30 | 569 | 96 | 8133 | | 9 | 114, 8 | |
| 3320 | 237 | 81/08/25 | 0039:00 | 0039:40 | 65 | 99 | | | 2 | | |
| 3321 | 237 | 81/08/25 | 0513:05 | 0513:55 | 120 | 145 | | | 2 | 114, 9 | DG |
| 3322 | 237 | 81/08/25 | 0717:30 | 0717:45 | 85 | 93 | | | 2 | | |
| 3323 | 237 | 81/08/25 | 1319:50 | 1320:15 | 60 | 76 | | | 2 | | |
| 3324 | 237 | 81/08/25 | 1942:45 | 1943:15 | 85 | 77 | | | 2 | | |
| 3325 | 237 | 81/08/25 | 2044:35 | 2045:30 | 145 | 71 | | | 3 | | |
| 3326 | 237 | 81/08/25 | 2119:30 | 2120:40 | 120 | 84 | | | 5 | | |
| 3327 | 237 | 81/08/25 | 2220:50 | 2222:20 | 193 | 409 | 23498 | | 6 | 114, 10 | M, AX |
| 3328 | 237 | 81/08/25 | 2257:20 | 2258:45 | 124 | 136 | 5289 | | 5 | 114, 12 | AX |
| 3329 | 237 | 81/08/25 | 2302:50 | 2304:35 | 226 | 122 | 7222 | | 14 | 114, 12 | AX |
| 3330 | 238 | 81/08/26 | 0043:20 | 0044:30 | 180 | 79 | | | 14 | | AX |
| 3331 | 238 | 81/08/26 | 0332:05 | 0337:15 | 649 | 112 | 14426 | | 2 | 114, 13 | |
| 3332 | 238 | 81/08/26 | 1013:30 | 1013:45 | 30 | 73 | | | 14 | | |
| 3333 | 238 | 81/08/26 | 1751:15 | 1751:30 | 73 | 208 | 1922 | | 2 | 114, 14 | |
| 3334 | 238 | 81/08/26 | 2026:20 | 2027:50 | 558 | 165 | 30909 | | 5 | | AX |
| 3335 | 238 | 81/08/26 | 2106:05 | 2114:25 | 598 | 156 | 10946 | | 2 | 114, 15 | |
| 3336 | 238 | 81/08/26 | 2121:30 | 2123:35 | 191 | 120 | 4613 | | 2 | 114, 15 | |
| 3337 | 238 | 81/08/26 | 2207:50 | 2210:00 | 291 | 253 | 27945 | | 5 | 114, 16 | AX |
| 3338 | 239 | 81/08/27 | 0303:50 | 0304:25 | 126 | 104 | 1754 | | 2 | 115, 1 | |
| 3339 | 239 | 81/08/27 | 0449:45 | 0452:45 | 454 | 182 | 20804 | | 2 | 115, 2 | |
| 3340 | 239 | 81/08/27 | 0458:40 | 0459:55 | 200 | 184 | 8548 | | 4 | 115, 2 | |
| 3341 | 239 | 81/08/27 | 0826:10 | 0826:35 | 68 | 111 | 723 | | 2 | 115, 3 | |
| 3342 | 239 | 81/08/27 | 1315:00 | 1315:25 | 80 | 75 | | | 2 | | |
| 3343 | 239 | 81/08/27 | 1726:35 | 1726:45 | 35 | 131 | 347 | | 2 | 115, 4 | |
| 3344 | 239 | 81/08/27 | 1755:40 | 1756:05 | 75 | 58 | | | 2 | | |
| 3345 | 239 | 81/08/27 | 1859:50 | 1900:35 | 85 | 59 | | | 2 | | |
| 3346 | 239 | 81/08/27 | 2213:25 | 2214:05 | 100 | 148 | | | 2 | 115, 5 | ND |
| 3347 | 240 | 81/08/28 | 0013:50 | 0015:45 | 170 | 39 | | | 2 | | |
| 3348 | 240 | 81/08/28 | 0112:55 | 0118:45 | 382 | 19 | 3324 | | 5 | 115, 6 | AX |
| 3349 | 240 | 81/08/28 | 0136:45 | 0137:40 | 110 | 129 | 3481 | | 5 | 115, 7 | |
| 3350 | 240 | 81/08/28 | 0145:45 | 0146:40 | 120 | 72 | | | 2 | | |
| 3351 | 240 | 81/08/28 | 0257:00 | 0257:25 | 45 | 63 | | | 2 | | |
| 3352 | 240 | 81/08/28 | 0334:45 | 0335:20 | 52 | 170 | 2924 | | 2 | 115, 8 | |
| 3353 | 240 | 81/08/28 | 0507:00 | 0507:10 | 30 | 72 | | | 2 | | |
| 3354 | 240 | 81/08/28 | 0750:30 | 0751:10 | 60 | 182 | 2420 | | 4 | 115, 9 | |
| 3355 | 240 | 81/08/28 | 1112:55 | 1113:10 | 40 | 77 | | | 2 | | |
| 3356 | 240 | 81/08/28 | 1214:45 | 1214:55 | 127 | 268 | 5645 | | 1 | 115, 10 | SN |
| 3357 | 240 | 81/08/28 | 1350:05 | 1350:15 | 112 | 117 | 1550 | | 2 | 115, 11 | |

82

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3358 | 240 | 81/08/28 | 1408:25 | 1409:30 | 130 | 81 | | | 2 | | |
| 3359 | 240 | 81/08/28 | 1424:15 | 1425:55 | 626 | 76 | 5230 | | 2 | 115, 12 | |
| 3360 | 240 | 81/08/28 | 1724:10 | 1724:45 | 130 | 66 | | | 2 | | |
| 3361 | 240 | 81/08/28 | 1836:25 | 1841:25 | 703 | 159 | 25218 | | 2 | 115, 13 | |
| 3362 | 240 | 81/08/28 | 1852:20 | 1852:50 | 60 | 65 | | | 2 | | |
| 3363 | 240 | 81/08/28 | 1922:55 | 1923:40 | 146 | 599 | 11124 | | 5 | 115, 14 | |
| 3364 | 240 | 81/08/28 | 2017:05 | 2017:55 | 95 | 72 | | | 2 | | |
| 3365 | 240 | 81/08/28 | 2028:45 | 2029:25 | 204 | 438 | 4986 | | 5 | 115, 15 | |
| 3366 | 240 | 81/08/28 | 2035:50 | 2036:30 | 60 | 181 | 1533 | | 2 | 115, 15 | |
| 3367 | 240 | 81/08/28 | 2054:20 | 2056:10 | 190 | 74 | | | 9 | | AX |
| 3368 | 240 | 81/08/28 | 2149:35 | 2150:40 | 134 | 232 | 9721 | | 7 | 115, 16 | |
| 3369 | 240 | 81/08/28 | 2228:30 | 2231:55 | 547 | 81 | 5085 | | 4 | 116, 1 | |
| 3370 | 241 | 81/08/29 | 0244:00 | 0244:20 | 65 | 62 | | | 2 | | |
| 3371 | 241 | 81/08/29 | 0452:45 | 0454:10 | 180 | 251 | 6769 | | 3 | 116, 2 | |
| 3372 | 241 | 81/08/29 | 0633:40 | 0643:10 | 612 | 120 | 3361 | | 2 | 116, 3 | EN |
| 3373 | 241 | 81/08/29 | 0751:40 | 0752:35 | 95 | 106 | 1805 | | 2 | 116, 4 | |
| 3374 | 241 | 81/08/29 | 0758:25 | 0759:45 | 167 | 249 | 2777 | | 4 | 116, 4 | |
| 3375 | 241 | 81/08/29 | 1056:40 | 1058:15 | 197 | 143 | 1659 | | 2 | 116, 6 | |
| 3377 | 241 | 81/08/29 | 1106:25 | 1106:35 | 50 | 56 | | | 2 | | |
| 3376 | 241 | 81/08/29 | 1303:10 | 1304:30 | 163 | 1378 | 25853 | | 5 | 116, 5 | M |
| 3378 | 241 | 81/08/29 | 1535:30 | 1537:30 | 195 | 84 | | | 2 | | |
| 3379 | 241 | 81/08/29 | 1554:25 | 1555:05 | 65 | 94 | | | 2 | | |
| 3380 | 241 | 81/08/29 | 1857:10 | 1857:25 | 115 | 63 | | | 2 | | |
| 3381 | 241 | 81/08/29 | 2016:15 | 2023:50 | 2730 | 139 | 51489 | | 15 | 116, 7 | |
| 3382 | 241 | 81/08/29 | 2143:35 | 2143:40 | 30 | 78 | | | 2 | | |
| 3383 | 241 | 81/08/29 | 2218:35 | 2225:10 | 615 | 177 | 31426 | | 15 | 116, 8 | |
| 3384 | 242 | 81/08/30 | 0119:00 | 0120:25 | 667 | 376 | 33184 | | 5 | 116, 9 | M |
| 3385 | 242 | 81/08/30 | 0231:45 | 0233:55 | 223 | 105 | 3866 | | 2 | 116, 10 | |
| 3386 | 242 | 81/08/30 | 0306:00 | 0306:10 | 70 | 93 | | | 2 | | |
| 3387 | 242 | 81/08/30 | 0312:45 | 0314:55 | 150 | 85 | | | 2 | | |
| 3388 | 242 | 81/08/30 | 0907:25 | 0909:55 | 349 | 3118 | 2.11E+05 | | 10 | 116, 11 | M |
| 3389 | 242 | 81/08/30 | 0926:45 | 0927:35 | 105 | 76 | | | 2 | | |
| 3390 | 242 | 81/08/30 | 1254:45 | 1255:10 | 135 | 93 | | | 3 | | |
| 3391 | 242 | 81/08/30 | 1543:10 | 1543:30 | 55 | 69 | | | 2 | | |
| 3392 | 242 | 81/08/30 | 1544:40 | 1545:05 | 85 | 82 | | | 2 | | |
| 3393 | 242 | 81/08/30 | 1605:40 | 1606:00 | 35 | 72 | | | 2 | | |
| 3394 | 242 | 81/08/30 | 1849:05 | 1849:55 | 301 | 463 | 18013 | | 4 | 116, 13 | |
| 3395 | 242 | 81/08/30 | 2014:05 | 2014:20 | 39 | 123 | 1218 | | 3 | 116, 14 | |
| 3396 | 242 | 81/08/30 | 2031:30 | 2034:40 | 427 | 65 | 3465 | | 2 | 116, 15 | |
| 3397 | 242 | 81/08/30 | 2202:00 | 2202:45 | 131 | 230 | 2584 | | 4 | 116, 16 | |
| 3398 | 242 | 81/08/30 | 2211:20 | 2215:20 | 475 | 84 | 7552 | | 4 | 116, 16 | |
| 3399 | 242 | 81/08/30 | 2357:20 | 2358:10 | 98 | 137 | 1870 | | 3 | 117, 1 | |
| 3400 | 243 | 81/08/31 | 0048:30 | 0049:30 | 85 | 92 | | | 2 | | |
| 3401 | 243 | 81/08/31 | 0104:40 | 0104:55 | 97 | 213 | 2478 | | 4 | 117, 2 | |
| 3402 | 243 | 81/08/31 | 0107:35 | 0108:00 | 151 | 227 | 2541 | | 4 | 117, 2 | |
| 3403 | 243 | 81/08/31 | 0111:25 | 0112:00 | 143 | 229 | 4692 | | 3 | 117, 2 | |
| 3404 | 243 | 81/08/31 | 0117:15 | 0118:40 | 248 | 365 | 11606 | | 5 | 117, 2 | |
| 3405 | 243 | 81/08/31 | 0543:15 | 0545:55 | 200 | 100 | | | 2 | | |
| 3406 | 243 | 81/08/31 | 0548:35 | 0549:30 | 187 | 73 | | | 2 | | |
| 3407 | 243 | 81/08/31 | 0722:25 | 0723:20 | 413 | 1108 | 83427 | | 5 | 117, 3 | M |
| 3408 | 243 | 81/08/31 | 0911:40 | 0912:10 | 139 | 143 | 3103 | | 2 | 117, 5 | |
| 3409 | 243 | 81/08/31 | 1350:25 | 1354:35 | 700 | 1017 | 1.55E+05 | | 4 | 117, 6 | M, DG |
| 3410 | 243 | 81/08/31 | 1508:35 | 1508:50 | 30 | 56 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

83

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 3411 | 243 | 81/08/31 | 1539:55 | 1540:25 | 70 | 77 | | | 2 | | |
| 3412 | 243 | 81/08/31 | 1809:50 | 1810:05 | 391 | 133 | 8165 | | 2 | | |
| 3413 | 243 | 81/08/31 | 1949:10 | 1950:20 | 226 | 170 | 8335 | | 3 | 117, 8 | SN, AX |
| 3414 | 244 | 81/09/01 | 0401:35 | 0402:05 | 80 | 294 | 4138 | | 3 | 117, 9 | AX |
| 3415 | 244 | 81/09/01 | 0539:20 | 0542:05 | 304 | 483 | 18253 | | 2 | 117, 10 | |
| 3416 | 244 | 81/09/01 | 1649:05 | 1652:35 | 295 | 92 | 4353 | | 2 | 117, 11 | |
| 3417 | 245 | 81/09/02 | 0346:30 | 0347:15 | 150 | 75 | | | 2 | 117, 12 | |
| 3418 | 245 | 81/09/02 | 0534:05 | 0534:45 | 202 | 1098 | 32671 | | 5 | 117, 13 | M |
| 3419 | 245 | 81/09/02 | 0549:15 | 0550:30 | 140 | 68 | | | 2 | | |
| 3420 | 245 | 81/09/02 | 0846:30 | 0847:25 | 140 | 94 | | | 2 | | |
| 3421 | 245 | 81/09/02 | 1814:05 | 1815:10 | 65 | 73 | | | 2 | | |
| 3422 | 245 | 81/09/02 | 2004:45 | 2007:30 | 319 | 88 | 3886 | | 10 | 117, 15 | |
| 3423 | 246 | 81/09/03 | 0411:40 | 0412:25 | 80 | 68 | | | 2 | | |
| 3424 | 246 | 81/09/03 | 0907:20 | 0907:35 | 30 | 60 | | | 2 | | |
| 3425 | 246 | 81/09/03 | 1518:05 | 1518:15 | 39 | 120 | 883 | | 2 | 117, 16 | |
| 3426 | 246 | 81/09/03 | 1612:35 | 1613:05 | 50 | 64 | | | 2 | | |
| 3427 | 246 | 81/09/03 | 1639:20 | 1640:55 | 237 | 109 | 4856 | | 2 | 118, 1 | |
| 3428 | 246 | 81/09/03 | 2014:05 | 2015:00 | 75 | 79 | | | 2 | | |
| 3429 | 246 | 81/09/03 | 2129:30 | 2129:55 | 53 | 341 | 1924 | | 4 | 118, 2 | |
| 3430 | 246 | 81/09/03 | 2255:50 | 2257:40 | 1432 | 4869 | 8.98E+05 | | 6 | 118, 3 | |
| 3431 | 247 | 81/09/04 | 1253:20 | 1253:45 | 60 | 97 | | | 2 | | |
| 3432 | 247 | 81/09/04 | 1559:25 | 1559:45 | 180 | 448 | 7557 | | 4 | 118, 4 | |
| 3433 | 248 | 81/09/05 | 0021:00 | 0021:20 | 60 | 72 | | | 2 | | |
| 3434 | 248 | 81/09/05 | 0343:15 | 0343:40 | 45 | 100 | | | 2 | | |
| 3435 | 248 | 81/09/05 | 0500:50 | 0501:05 | 25 | 99 | | | 2 | | |
| 3436 | 248 | 81/09/05 | 0538:20 | 0538:50 | 70 | 73 | | | 2 | | |
| 3437 | 248 | 81/09/05 | 0659:20 | 0659:50 | 60 | 1314 | 12884 | | 9 | 118, 5 | |
| 3438 | 248 | 81/09/05 | 0706:25 | 0706:55 | 134 | 494 | 13240 | | 8 | 118, 5 | |
| 3439 | 248 | 81/09/05 | 0949:00 | 0950:15 | 170 | 87 | | | 2 | | |
| 3440 | 248 | 81/09/05 | 0953:45 | 0954:05 | 45 | 58 | | | 2 | | |
| 3441 | 248 | 81/09/05 | 1001:10 | 1002:10 | 140 | 64 | | | 2 | | |
| 3442 | 248 | 81/09/05 | 1027:50 | 1028:50 | 84 | 360 | 6664 | | 2 | 118, 6 | |
| 3443 | 248 | 81/09/05 | 1109:45 | 1111:15 | 148 | 127 | 2961 | | 2 | 118, 7 | |
| 3444 | 248 | 81/09/05 | 1118:45 | 1119:10 | 185 | 68 | | | 2 | | |
| 3445 | 248 | 81/09/05 | 1150:55 | 1151:30 | 88 | 111 | 857 | | 2 | 118, 8 | |
| 3446 | 248 | 81/09/05 | 1556:35 | 1557:15 | 85 | 67 | | | 2 | | |
| 3447 | 248 | 81/09/05 | 1607:20 | 1608:10 | 183 | 336 | 9623 | | 4 | 118, 9 | |
| 3448 | 248 | 81/09/05 | 1901:30 | 1902:00 | 900 | 430 | 76542 | | 3 | 118, 10 | SN |
| 3449 | 248 | 81/09/05 | 2041:40 | 2042:00 | 50 | 103 | | | 2 | | |
| 3450 | 248 | 81/09/05 | 2058:50 | 2059:15 | 81 | 220 | 5360 | | 3 | 118, 11 | |
| 3451 | 248 | 81/09/05 | 2114:10 | 2114:25 | 27 | 165 | 974 | | 2 | 118, 12 | |
| 3452 | 248 | 81/09/05 | 2116:20 | 2116:30 | 35 | 73 | | | 2 | 118, 12 | |
| 3453 | 248 | 81/09/05 | 2123:35 | 2124:40 | 139 | 140 | 2672 | | 2 | 118, 12 | |
| 3454 | 248 | 81/09/05 | 2238:10 | 2238:45 | 220 | 140 | 3293 | | 2 | 118, 13 | |
| 3455 | 248 | 81/09/05 | 2358:50 | 0001:30 | 525 | 2848 | 2.97E+05 | | 8 | 118, 14 | M |
| 3456 | 249 | 81/09/06 | 0316:20 | 0316:30 | 26 | 292 | 1425 | | 4 | 118, 16 | |
| 3457 | 249 | 81/09/06 | 0502:05 | 0502:10 | 28 | 157 | 450 | | 2 | 119, 1 | |
| 3458 | 249 | 81/09/06 | 1007:50 | 1008:35 | 75 | 84 | | | 2 | | |
| 3459 | 249 | 81/09/06 | 1246:20 | 1249:35 | 209 | 156 | 2187 | | 2 | 119, 2 | |
| 3460 | 249 | 81/09/06 | 1624:40 | 1624:50 | 15 | 58 | | | 2 | | |
| 3461 | 249 | 81/09/06 | 1626:30 | 1627:05 | 65 | 54 | | | 2 | | |
| 3462 | 249 | 81/09/06 | 1733:10 | 1733:35 | 35 | 77 | | | 2 | | |
| 3463 | 249 | 81/09/06 | 1812:30 | 1812:45 | 434 | 92 | 8026 | | 5 | 119, 3 | EN |

ORIGINAL PAGE NO.
OF FOUR

84

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3464 | 249 | 81/09/06 | 1905:35 | 1906:00 | 158 | 149 | 2352 | | 2 | 119, 4 | |
| 3465 | 249 | 81/09/06 | 1935:10 | 1935:40 | 139 | 130 | 3013 | | 2 | 119, 5 | |
| 3466 | 249 | 81/09/06 | 2102:00 | 2109:45 | 1070 | 1348 | 1.84E+05 | | 5 | 119, 6 | |
| 3467 | 249 | 81/09/06 | 2353:10 | 2353:35 | 72 | 1551 | 20789 | | 9 | 119, 7 | M |
| 3468 | 250 | 81/09/07 | 0006:15 | 0011:20 | 1080 | 3060 | 4.68E+05 | | 4 | 119, 7 | |
| 3469 | 250 | 81/09/07 | 0118:40 | 0120:40 | 223 | 2408 | 67546 | | 4 | 119, 8 | M |
| 3470 | 250 | 81/09/07 | 0124:45 | 0125:50 | 116 | 109 | 2073 | | 2 | 119, 8 | |
| 3471 | 250 | 81/09/07 | 0158:30 | 0155:55 | 30 | 71 | | | 2 | | |
| 3472 | 250 | 81/09/07 | 0203:15 | 0203:40 | 112 | 838 | 13564 | | 5 | 119, 10 | |
| 3473 | 250 | 81/09/07 | 0310:40 | 0312:55 | 1179 | 106 | 18062 | | 2 | 119, 11 | |
| 3474 | 250 | 81/09/07 | 0500:40 | 0501:05 | 58 | 254 | 1620 | | 4 | 119, 12 | |
| 3475 | 250 | 81/09/07 | 0503:40 | 0503:55 | 35 | 91 | | | 2 | 119, 12 | |
| 3476 | 250 | 81/09/07 | 0509:10 | 0511:40 | 984 | 25878 | 1.39E+06 | | 14 | 119, 12 | |
| 3477 | 250 | 81/09/07 | 0639:45 | 0645:50 | 654 | 139 | 5102 | | 2 | 119, 13 | |
| 3478 | 250 | 81/09/07 | 1134:55 | 1136:15 | 496 | 824 | 39966 | | 4 | 119, 14 | M |
| 3479 | 250 | 81/09/07 | 1256:25 | 1257:00 | 120 | 63 | | | 2 | | |
| 3480 | 250 | 81/09/07 | 1404:45 | 1405:45 | 79 | 202 | 1335 | | 3 | 119, 15 | |
| 3481 | 250 | 81/09/07 | 1416:05 | 1416:55 | 135 | 80 | | | 2 | | |
| 3482 | 250 | 81/09/07 | 1444:10 | 1446:50 | 325 | 370 | 9778 | | 3 | 119, 16 | |
| 3483 | 250 | 81/09/07 | 1715:55 | 1716:20 | 55 | 59 | | | 2 | | |
| 3484 | 250 | 81/09/07 | 2054:15 | 2057:00 | 464 | 262 | 25514 | | 2 | 120, 1 | |
| 3485 | 250 | 81/09/07 | 2222:25 | 2223:20 | 455 | 8504 | 4.14E+05 | | 13 | 120, 2 | M |
| 3486 | 251 | 81/09/08 | 0016:05 | 0016:50 | 158 | 166 | 1996 | | 2 | 120, 4 | |
| 3487 | 251 | 81/09/08 | 0338:20 | 0339:00 | 156 | 162 | 3451 | | 2 | 120, 5 | |
| 3488 | 251 | 81/09/08 | 0433:55 | 0434:05 | 30 | 78 | | | 2 | | |
| 3489 | 251 | 81/09/08 | 0450:05 | 0450:35 | 40 | 75 | | | 2 | | |
| 3490 | 251 | 81/09/08 | 0452:20 | 0454:05 | 485 | 182 | 16085 | | 2 | 120, 6 | |
| 3491 | 251 | 81/09/08 | 0624:55 | 0625:05 | 36 | 115 | 550 | | 2 | 120, 7 | |
| 3492 | 251 | 81/09/08 | 0626:15 | 0626:35 | 45 | 86 | | | 2 | 120, 7 | |
| 3493 | 251 | 81/09/08 | 1055:35 | 1055:55 | 45 | 338 | 2705 | | 4 | 120, 8 | |
| 3494 | 251 | 81/09/08 | 1226:30 | 1227:40 | 125 | 60 | | | 2 | | |
| 3495 | 251 | 81/09/08 | 1535:25 | 1536:15 | 277 | 331 | | | 2 | 120, 9 | ND |
| 3496 | 251 | 81/09/08 | 1700:00 | 1700:40 | 866 | 414 | 54251 | | 3 | 120, 10 | SN |
| 3497 | 251 | 81/09/08 | 1727:05 | 1728:00 | 123 | 314 | 9038 | | 3 | 120, 10 | |
| 3498 | 251 | 81/09/08 | 1743:10 | 1743:30 | 60 | 75 | | | 2 | | |
| 3499 | 251 | 81/09/08 | 1901:15 | 1901:45 | 60 | 80 | | | 2 | | |
| 3500 | 251 | 81/09/08 | 1919:10 | 1919:35 | 55 | 72 | | | 2 | | |
| 3501 | 251 | 81/09/08 | 2027:35 | 2028:35 | 96 | 127 | 1007 | | 2 | 120, 11 | |
| 3502 | 251 | 81/09/08 | 2031:35 | 2032:05 | 55 | 73 | | | 2 | | |
| 3503 | 251 | 81/09/08 | 2322:15 | 2322:55 | 95 | 377 | 6066 | | 4 | 120, 12 | |
| 3504 | 251 | 81/09/08 | 2331:50 | 2332:40 | 102 | 163 | 2742 | | 3 | 120, 12 | |
| 3505 | 251 | 81/09/08 | 2337:15 | 2338:20 | 145 | 66 | | | 2 | | |
| 3506 | 252 | 81/09/09 | 0113:30 | 0114:05 | 218 | 1020 | 37518 | | 4 | 120, 13 | M |
| 3507 | 252 | 81/09/09 | 0146:10 | 0146:40 | 55 | 76 | | | 2 | | |
| 3508 | 252 | 81/09/09 | 0506:45 | 0506:55 | 45 | 98 | | | 2 | | |
| 3509 | 252 | 81/09/09 | 0727:05 | 0731:15 | 486 | 321 | 19102 | | 3 | 120, 15 | |
| 3510 | 252 | 81/09/09 | 1100:15 | 1100:25 | 80 | 84 | | | 2 | | |
| 3511 | 252 | 81/09/09 | 1358:55 | 1359:10 | 50 | 68 | | | 2 | | |
| 3512 | 252 | 81/09/09 | 1551:00 | 1551:25 | 60 | 68 | | | 2 | | |
| 3513 | 252 | 81/09/09 | 2024:30 | 2024:35 | 10 | 100 | | | 2 | | |
| 3514 | 252 | 81/09/09 | 2032:50 | 2035:30 | 220 | 381 | 10676 | | 3 | 120, 16 | |
| 3515 | 252 | 81/09/09 | 2206:05 | 2208:40 | 973 | 400 | 59583 | | 3 | 121, 1 | |
| 3516 | 252 | 81/09/09 | 2350:40 | 2350:55 | 45 | 66 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

85

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3517 | 252 | 81/09/09 | 2355:30 | 0000:20 | 577 | 170 | 12250 | | 2 | 121, 2 | |
| 3518 | 253 | 81/09/10 | 0300:40 | 0302:40 | 210 | 74 | | | 2 | | |
| 3519 | 253 | 81/09/10 | 0557:10 | 0558:40 | 80 | 70 | | | 2 | | |
| 3520 | 253 | 81/09/10 | 0935:35 | 0940:45 | 610 | 28539 | 1.42E+06 | | 11 | 121, 3 | EN |
| 3521 | 253 | 81/09/10 | 1054:20 | 1055:15 | 80 | 61 | | | 2 | | |
| 3522 | 253 | 81/09/10 | 1336:10 | 1336:25 | 30 | 93 | | | 2 | | |
| 3523 | 253 | 81/09/10 | 1346:10 | 1347:40 | 315 | 94 | 41014 | | 2 | 121, 4 | |
| 3524 | 253 | 81/09/10 | 1838:40 | 1842:55 | 471 | 78 | 4314 | | 4 | 121, 5 | |
| 3525 | 254 | 81/09/11 | 0040:10 | 0045:55 | 887 | 102 | 4729 | | 2 | 121, 6 | |
| 3526 | 254 | 81/09/11 | 0114:55 | 0116:00 | 179 | 416 | 14450 | | 3 | 121, 7 | |
| 3527 | 254 | 81/09/11 | 0130:00 | 0131:45 | 140 | 70 | | | 2 | | |
| 3528 | 254 | 81/09/11 | 0712:30 | 0713:50 | 146 | 508 | 12353 | | 4 | 121, 8 | M |
| 3529 | 254 | 81/09/11 | 0734:40 | 0734:50 | 35 | 65 | | | 2 | | |
| 3530 | 254 | 81/09/11 | 0752:10 | 0753:50 | 297 | 819 | 27286 | | 4 | 121, 9 | |
| 3531 | 254 | 81/09/11 | 1014:10 | 1018:45 | 535 | 543 | 36127 | | 3 | 121, 10 | M |
| 3532 | 254 | 81/09/11 | 1213:30 | 1214:55 | 195 | 71 | | | 2 | | |
| 3533 | 254 | 81/09/11 | 1335:20 | 1337:20 | 165 | 65 | | | 3 | | |
| 3534 | 254 | 81/09/11 | 1411:00 | 1414:00 | 487 | 60 | | | 4 | | SA |
| 3535 | 254 | 81/09/11 | 1515:30 | 1517:15 | 170 | 75 | | | 3 | | |
| 3536 | 254 | 81/09/11 | 1647:50 | 1649:15 | 140 | 73 | | | 5 | | |
| 3537 | 254 | 81/09/11 | 2128:05 | 2128:45 | 100 | 64 | | | 2 | | |
| 3538 | 254 | 81/09/11 | 2132:05 | 2132:50 | 155 | 120 | 1985 | | 2 | 121, 12 | |
| 3539 | 254 | 81/09/11 | 2139:25 | 2140:10 | 85 | 112 | 1179 | | 2 | 121, 12 | |
| 3540 | 254 | 81/09/11 | 2157:55 | 2158:00 | 11 | 315 | 1217 | | 4 | 121, 13 | |
| 3541 | 254 | 81/09/11 | 2158:45 | 2159:05 | 50 | 86 | | | 2 | 121, 13 | |
| 3542 | 254 | 81/09/11 | 2310:15 | 2311:20 | 486 | 7554 | 4.14E+05 | | 8 | 121, 14 | M |
| 3543 | 255 | 81/09/12 | 0037:35 | 0038:35 | 136 | 113 | 1429 | | 2 | 121, 16 | |
| 3544 | 255 | 81/09/12 | 0046:00 | 0046:40 | 166 | 452 | 12195 | | 3 | 121, 16 | |
| 3545 | 255 | 81/09/12 | 0059:40 | 0100:15 | 55 | 65 | | | 2 | | |
| 3546 | 255 | 81/09/12 | 0344:15 | 0344:40 | 90 | 64 | | | 2 | | |
| 3547 | 255 | 81/09/12 | 0521:15 | 0531:45 | 838 | 157 | 6890 | | 3 | 122, 1 | |
| 3548 | 255 | 81/09/12 | 0708:25 | 0709:25 | 201 | 171 | 7644 | | 2 | 122, 2 | |
| 3549 | 255 | 81/09/12 | 0718:50 | 0721:00 | 325 | 102 | 7339 | | 2 | 122 | |
| 3550 | 255 | 81/09/12 | 0728:30 | 0728:45 | 38 | 179 | 1102 | | 2 | 122, 2 | |
| 3551 | 255 | 81/09/12 | 0739:10 | 0740:55 | 140 | 86 | | | 2 | | |
| 3552 | 255 | 81/09/12 | 1005:30 | 1005:45 | 41 | 127 | 468 | | 2 | 122, 3 | |
| 3553 | 255 | 81/09/12 | 1151:05 | 1158:35 | 677 | 108 | 10304 | | 2 | 122, 4 | |
| 3554 | 255 | 81/09/12 | 1228:25 | 1230:55 | 290 | 134 | 5038 | | 2 | 122, 5 | |
| 3555 | 255 | 81/09/12 | 1315:00 | 1315:55 | 100 | 87 | | | 2 | | |
| 3556 | 255 | 81/09/12 | 1525:30 | 1525:40 | 75 | 76 | | | 2 | | |
| 3557 | 255 | 81/09/12 | 1800:30 | 1801:05 | 90 | 60 | | | 2 | | |
| 3558 | 255 | 81/09/12 | 2321:50 | 2322:15 | 50 | 94 | | | 2 | | |
| 3559 | 255 | 81/09/12 | 2324:50 | 2325:05 | 160 | 84 | | | 2 | | |
| 3560 | 256 | 81/09/13 | 0047:25 | 0048:10 | 72 | 106 | 3019 | | 2 | 122, 6 | |
| 3561 | 256 | 81/09/13 | 0959:55 | 1001:00 | 349 | 111 | 2793 | | 2 | 122, 7 | |
| 3562 | 256 | 81/09/13 | 1039:45 | 1040:25 | 65 | 90 | | | 2 | | |
| 3563 | 256 | 81/09/13 | 1316:15 | 1317:20 | 175 | 68 | | | 4 | | |
| 3564 | 256 | 81/09/13 | 1503:15 | 1503:20 | 15 | 81 | | | 2 | | |
| 3565 | 256 | 81/09/13 | 1644:05 | 1644:30 | 50 | 56 | | | 2 | | |
| 3566 | 256 | 81/09/13 | 1943:50 | 1944:05 | 45 | 92 | | | 2 | | |
| 3567 | 256 | 81/09/13 | 1946:45 | 1947:10 | 155 | 117 | 2738 | | 2 | 122, 8 | |
| * 3568 | 257 | 81/09/14 | 0054:30 | 0054:55 | 35 | 79 | | | 2 | | |
| * 3569 | 257 | 81/09/14 | 0715:50 | 0716:25 | 114 | 155 | 2168 | | 2 | 122, 9 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| * 3570 | 257 | 81/09/14 | 1004:40 | 1005:00 | 50 | 66 | | | 2 | | |
| * 3571 | 257 | 81/09/14 | 1136:35 | 1137:00 | 50 | 74 | | | 2 | | |
| * 3572 | 257 | 81/09/14 | 1154:30 | 1155:30 | 175 | 61 | | | 2 | | |
| * 3573 | 257 | 81/09/14 | 1305:55 | 1307:15 | 247 | 120 | 5587 | | 5 | 122, 10 | |
| * 3574 | 257 | 81/09/14 | 2242:35 | 2243:30 | 85 | 74 | | | 2 | | |
| * 3575 | 257 | 81/09/14 | 2244:40 | 2245:35 | 100 | 98 | | | 2 | | |
| * 3576 | 257 | 81/09/14 | 2254:20 | 2258:05 | 351 | 450 | 29691 | | 4 | 122, 11 | |
| * 3577 | 258 | 81/09/15 | 0007:25 | 0008:05 | 170 | 87 | | | 2 | | |
| * 3578 | 258 | 81/09/15 | 0038:40 | 0049:15 | 1265 | 393 | 26535 | | 5 | 122, 12 | EN |
| * 3579 | 258 | 81/09/15 | 0043:20 | 0045:40 | 64 | 103 | 608 | | 2 | 122, 13 | |
| * 3580 | 258 | 81/09/15 | 1258:30 | 1259:30 | 70 | 84 | | | 7 | | |
| * 3581 | 258 | 81/09/15 | 1343:10 | 1343:10 | 95 | 90 | | | 2 | | |
| * 3582 | 258 | 81/09/15 | 1934:05 | 1934:40 | 135 | 70 | | | 2 | | |
| * 3583 | 258 | 81/09/15 | 2101:10 | 2102:00 | 181 | 152 | 4401 | | 2 | 122, 14 | M |
| * 3584 | 258 | 81/09/15 | 2110:15 | 2114:40 | 931 | 28212 | 3.10E+06 | | 15 | 122, 14 | EN |
| * 3585 | 259 | 81/09/16 | 0040:15 | 0040:35 | 80 | 98 | | | 2 | | |
| * 3586 | 259 | 81/09/16 | 0134:35 | 0135:40 | 185 | 90 | | | 2 | | |
| * 3587 | 259 | 81/09/16 | 0140:25 | 0141:25 | 165 | 73 | | | 2 | | |
| * 3588 | 259 | 81/09/16 | 0636:00 | 0637:45 | 190 | 77 | | | 2 | | |
| * 3589 | 259 | 81/09/16 | 1104:10 | 1108:15 | 306 | 365 | 14734 | | 10 | 122, 15 | M |
| * 3590 | 259 | 81/09/16 | 1332:05 | 1334:15 | 237 | 244 | 7096 | | 3 | 123, 1 | |
| * 3591 | 259 | 81/09/16 | 1609:50 | 1610:10 | 109 | 135 | 2198 | | 2 | 123, 2 | |
| * 3592 | 259 | 81/09/16 | 1745:20 | 1747:00 | 613 | 68 | 5080 | | 2 | 123, 3 | |
| * 3593 | 260 | 81/09/17 | 0128:30 | 0129:35 | 126 | 177 | 2980 | | 2 | 123, 4 | |
| * 3594 | 260 | 81/09/17 | 0136:55 | 0137:45 | 170 | 101 | | | 2 | | |
| * 3595 | 260 | 81/09/17 | 0321:30 | 0321:50 | 95 | 67 | | | 2 | | |
| * 3596 | 260 | 81/09/17 | 0434:35 | 0435:10 | 80 | 73 | | | 2 | | |
| * 3597 | 260 | 81/09/17 | 0523:20 | 0523:40 | 46 | 155 | 1540 | | 3 | 123, 5 | |
| * 3598 | 260 | 81/09/17 | 0643:10 | 0645:55 | 515 | 72 | 2212 | | 2 | 123, 6 | |
| * 3599 | 260 | 81/09/17 | 1055:20 | 1056:50 | 242 | 163 | 10714 | | 6 | 123, 7 | |
| * 3600 | 260 | 81/09/17 | 1236:20 | 1238:15 | 205 | 76 | | | 2 | | |
| * 3601 | 260 | 81/09/17 | 1246:50 | 1247:05 | 60 | 65 | | | 2 | | |
| * 3602 | 260 | 81/09/17 | 1417:05 | 1417:20 | 25 | 65 | | | 2 | | |
| * 3603 | 260 | 81/09/17 | 1900:50 | 1901:00 | 40 | 60 | | | 2 | | |
| * 3604 | 260 | 81/09/17 | 2355:25 | 2355:45 | 55 | 153 | 1302 | | 2 | 123, 8 | |
| * 3605 | 261 | 81/09/18 | 0129:10 | 0132:25 | 490 | 1189 | 38601 | | 5 | 123, 9 | |
| * 3606 | 261 | 81/09/18 | 0332:45 | 0333:25 | 170 | 95 | | | 2 | | |
| * 3607 | 261 | 81/09/18 | 0444:50 | 0445:03 | 176 | 129 | 3305 | | 2 | 123, 10 | |
| * 3608 | 261 | 81/09/18 | 1413:40 | 1415:20 | 246 | 137 | 3464 | | 2 | 123, 11 | |
| * 3609 | 261 | 81/09/18 | 1732:25 | 1733:10 | 80 | 162 | 2108 | | 2 | 123, 12 | |
| * 3610 | 262 | 81/09/19 | 0312:10 | 0313:15 | 602 | 379 | 24595 | | 5 | 123, 13 | |
| * 3611 | 262 | 81/09/19 | 0412:30 | 0413:00 | 50 | 60 | | | 2 | | |
| * 3612 | 262 | 81/09/19 | 0550:10 | 0551:05 | 513 | 1954 | 81151 | | 9 | 123, 14 | M |
| * 3613 | 262 | 81/09/19 | 0602:40 | 0603:05 | 50 | 96 | | | 2 | | AX |
| * 3614 | 262 | 81/09/19 | 1033:35 | 1037:00 | 369 | 154 | 14723 | | 8 | 123, 16 | AX |
| * 3615 | 262 | 81/09/19 | 1215:57 | 1217:05 | 230 | 85 | | | 4 | | |
| * 3616 | 262 | 81/09/19 | 1438:40 | 1440:00 | 243 | 105 | 3926 | | 2 | 124, 1 | SA |
| * 3617 | 263 | 81/09/20 | 1025:00 | 1027:40 | 255 | 109 | 7417 | | 5 | 124, 2 | |
| * 3618 | 263 | 81/09/20 | 1117:00 | 1117:15 | 30 | 75 | | | 2 | | |
| 3619 | 264 | 81/09/21 | 1054:05 | 1054:55 | 210 | 110 | 3492 | | 2 | 124, 3 | |
| 3620 | 265 | 81/09/22 | 0834:35 | 0844:20 | 1831 | 379 | 68298 | | 7 | 124, 4 | M |
| 3621 | 266 | 81/09/23 | 0556:25 | 0557:25 | 140 | 76 | | | 2 | | |
| 3622 | 266 | 81/09/23 | 0714:55 | 0715:40 | 181 | 336 | 5397 | | 4 | 124, 6 | |

ORIGINAL PAGE IS
OF POOR QUALITY

87

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 3623 | 271 | 81/09/28 | 2358:20 | 2359:10 | 155 | 70 | | | 2 | | |
| 3624 | 272 | 81/09/29 | 0119:20 | 0119:30 | 30 | 57 | | | 2 | | |
| 3625 | 272 | 81/09/29 | 0121:00 | 0121:30 | 95 | 61 | | | 2 | | |
| 3626 | 273 | 81/09/30 | 1711:40 | 1712:35 | 195 | 94 | | | 2 | | |
| 3627 | 273 | 81/09/30 | 1846:05 | 1846:40 | 58 | 126 | 929 | | 3 | 124, 7 | |
| 3628 | 273 | 81/09/30 | 2001:20 | 2001:40 | 30 | 68 | | | 2 | | |
| 3629 | 273 | 81/09/30 | 2213:40 | 2213:50 | 30 | 90 | | | 2 | | |
| 3630 | 274 | 81/10/01 | 0410:30 | 0411:20 | 105 | 60 | | | 2 | | |
| 3631 | 274 | 81/10/01 | 1737:30 | 1738:25 | 75 | 97 | | | 2 | | |
| 3632 | 274 | 81/10/01 | 1949:55 | 1957:40 | 860 | 229 | 42074 | | 3 | 124, 8 | |
| 3633 | 274 | 81/10/01 | 2358:35 | 2359:05 | 50 | 64 | | | 2 | | |
| 3634 | 275 | 81/10/02 | 0728:30 | 0729:00 | 50 | 74 | | | 2 | | |
| 3635 | 275 | 81/10/02 | 1630:25 | 1635:10 | 521 | 405 | 33117 | | 2 | 124, 9 | M |
| 3636 | 276 | 81/10/03 | 2005:40 | 2006:20 | 100 | 65 | | | 2 | | |
| 3637 | 277 | 81/10/04 | 0057:40 | 0057:45 | 20 | 52 | | | 2 | | |
| 3638 | 277 | 81/10/04 | 0059:30 | 0059:40 | 60 | 52 | | | 2 | | |
| 3639 | 277 | 81/10/04 | 0101:10 | 0101:45 | 85 | 53 | | | 2 | | |
| 3640 | 277 | 81/10/04 | 0706:15 | 0706:30 | 40 | 67 | | | 5 | | |
| 3641 | 278 | 81/10/05 | 0151:15 | 0152:05 | 125 | 95 | | | 2 | | |
| 3642 | 278 | 81/10/05 | 0155:30 | 0156:30 | 100 | 73 | | | 2 | | |
| 3643 | 278 | 81/10/05 | 0509:00 | 0509:00 | 183 | 112 | 3004 | | 5 | 124, 11 | SA |
| 3644 | 278 | 81/10/05 | 0551:50 | 0552:25 | 120 | 54 | | | 2 | | |
| 3645 | 278 | 81/10/05 | 2233:50 | 2235:00 | 150 | 67 | | | 2 | | |
| 3646 | 279 | 81/10/06 | 0320:25 | 0321:30 | 195 | 85 | | | 6 | | |
| 3647 | 279 | 81/10/06 | 2044:50 | 2046:20 | 235 | 116 | 5977 | | 4 | 124, 12 | |
| 3648 | 279 | 81/10/06 | 2220:55 | 2221:35 | 85 | 88 | | | 3 | | |
| 3649 | 280 | 81/10/07 | 1233:40 | 1234:25 | 352 | 245 | 13450 | | 3 | 124, 13 | M, ES |
| 3650 | 280 | 81/10/07 | 1329:05 | 1329:25 | 115 | 78 | | | 2 | | |
| 3651 | 280 | 81/10/07 | 1632:50 | 1635:55 | 350 | 346 | 20655 | | 3 | 124, 14 | M |
| 3652 | 280 | 81/10/07 | 1802:00 | 1808:40 | 773 | 114 | 16092 | | 2 | 124, 15 | |
| 3653 | 280 | 81/10/07 | 1949:40 | 1950:00 | 35 | 76 | | | 2 | | |
| 3654 | 280 | 81/10/07 | 1950:53 | 1951:15 | 70 | 85 | | | 2 | | |
| 3655 | 280 | 81/10/07 | 2030:20 | 2036:25 | 645 | 118 | 33716 | | 4 | 124, 16 | |
| 3656 | 280 | 81/10/07 | 2113:25 | 2113:50 | 90 | 82 | | | 2 | | |
| 3657 | 280 | 81/10/07 | 2123:45 | 2124:00 | 35 | 59 | | | 2 | | |
| 3658 | 280 | 81/10/07 | 2231:00 | 2232:00 | 206 | 344 | 10722 | | 4 | 125, 1 | |
| 3659 | 280 | 81/10/07 | 2241:35 | 2301:35 | 6830 | 33669 | 1.05E+07 | | 15 | 198, 4 | M, ES, DG |
| 3660 | 281 | 81/10/08 | 0130:00 | 0130:55 | 376 | 90 | 4742 | | 2 | 125, 2 | |
| 3661 | 281 | 81/10/08 | 0139:40 | 0141:45 | 190 | 64 | | | 2 | | |
| 3662 | 281 | 81/10/08 | 0448:05 | 0448:15 | 20 | 61 | | | 2 | | |
| 3663 | 281 | 81/10/08 | 0457:55 | 0458:05 | 35 | 86 | | | 2 | | |
| 3664 | 281 | 81/10/08 | 0636:25 | 0636:40 | 40 | 68 | | | 2 | | |
| 3665 | 281 | 81/10/08 | 0644:40 | 0645:15 | 90 | 72 | | | 2 | | |
| 3666 | 281 | 81/10/08 | 0806:40 | 0807:00 | 53 | 195 | 1819 | | 3 | 125, 3 | |
| 3667 | 281 | 81/10/08 | 1136:35 | 1137:20 | 155 | 99 | | | 2 | | |
| 3668 | 281 | 81/10/08 | 1141:05 | 1142:40 | 169 | 132 | 2979 | | 2 | 125, 4 | |
| 3669 | 281 | 81/10/08 | 1223:05 | 1223:15 | 30 | 94 | | | 2 | | |
| 3670 | 281 | 81/10/08 | 1304:25 | 1304:45 | 45 | 76 | | | 2 | | |
| 3671 | 281 | 81/10/08 | 2020:55 | 2022:50 | 290 | 140 | 11230 | | 5 | 125, 5 | AX |
| 3672 | 281 | 81/10/08 | 2242:50 | 2244:05 | 155 | 72 | | | 4 | | |
| 3673 | 282 | 81/10/09 | 0006:50 | 0007:10 | 85 | 80 | | | 2 | | |
| 3674 | 282 | 81/10/09 | 0431:10 | 0431:40 | 90 | 85 | | | 2 | | |
| 3675 | 282 | 81/10/09 | 0758:40 | 0758:50 | 29 | 255 | 992 | | 4 | 125, 6 | |

ORIGINAL PAGE IS
OF POOR QUALITY

88

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 3676 | 282 | 81/10/09 | 1301:50 | 1304:10 | 296 | 122 | 5604 | | 2 | 125, 7 | |
| 3677 | 282 | 81/10/09 | 1531:45 | 1532:45 | 133 | 166 | 3195 | | 3 | 125, 8 | |
| 3678 | 282 | 81/10/09 | 1912:05 | 1913:40 | 164 | 118 | 2944 | | 2 | 125, 9 | |
| 3679 | 282 | 81/10/09 | 2009:25 | 2011:55 | 562 | 170 | 22719 | | 6 | 125, 10 | |
| 3680 | 282 | 81/10/09 | 2154:20 | 2156:35 | 330 | 70 | | | 2 | 125, 11 | |
| 3681 | 282 | 81/10/09 | 2232:15 | 2233:40 | 215 | 75 | | | 5 | | |
| 3682 | 283 | 81/10/10 | 0126:55 | 0127:25 | 73 | 133 | 1494 | | 2 | 125, 12 | |
| 3683 | 283 | 81/10/10 | 0928:20 | 0928:40 | 40 | 84 | | | 2 | | |
| 3684 | 283 | 81/10/10 | 0935:10 | 0935:45 | 316 | 768 | 13433 | | 4 | 125, 13 | M |
| 3685 | 283 | 81/10/10 | 1247:30 | 1248:35 | 516 | 11434 | 3.10E+05 | | 7 | 125, 15 | M |
| 3686 | 283 | 81/10/10 | 1422:55 | 1424:30 | 383 | 1180 | 31861 | | 4 | 125, 16 | M |
| 3687 | 283 | 81/10/10 | 1517:55 | 1518:30 | 120 | 69 | | | 2 | | |
| 3688 | 283 | 81/10/10 | 1521:35 | 1522:15 | 65 | 81 | | | 2 | | |
| 3689 | 283 | 81/10/10 | 1600:40 | 1600:55 | 45 | 66 | | | 2 | | |
| 3690 | 283 | 81/10/10 | 1700:50 | 1701:45 | 75 | 95 | | | 2 | | |
| 3691 | 283 | 81/10/10 | 1704:20 | 1704:30 | 86 | 239 | 2346 | | 2 | 126, 1 | |
| 3692 | 283 | 81/10/10 | 1721:30 | 1721:40 | 120 | 66 | | | 2 | | |
| 3693 | 283 | 81/10/10 | 1737:25 | 1738:05 | 100 | 61 | | | 2 | | |
| 3694 | 283 | 81/10/10 | 1958:45 | 2000:55 | 621 | 112 | 10672 | | 5 | 126, 2 | |
| 3695 | 283 | 81/10/10 | 2042:40 | 2043:55 | 150 | 109 | 3422 | | 2 | 126, 3 | |
| 3696 | 283 | 81/10/10 | 2142:50 | 2143:40 | 292 | 87 | 3821 | | 2 | 126, 4 | |
| 3697 | 283 | 81/10/10 | 2310:40 | 2311:50 | 151 | 246 | 11171 | | 5 | 126, 5 | AX |
| 3698 | 283 | 81/10/10 | 2341:20 | 2341:30 | 70 | 69 | | | 2 | | |
| 3699 | 283 | 81/10/10 | 2348:30 | 2350:35 | 702 | 190 | 21826 | | 2 | 126, 6 | |
| 3700 | 284 | 81/10/11 | 0043:15 | 0046:50 | 195 | 199 | 7712 | | 7 | 126, 7 | |
| 3701 | 284 | 81/10/11 | 0053:40 | 0055:50 | 170 | 68 | | | 3 | | |
| 3702 | 284 | 81/10/11 | 0434:20 | 0434:50 | 311 | 280 | 9766 | | 2 | 126, 8 | |
| 3703 | 284 | 81/10/11 | 0549:40 | 0550:00 | 100 | 81 | | | 2 | | |
| 3704 | 284 | 81/10/11 | 0731:10 | 0731:30 | 80 | 71 | | | 2 | | |
| 3705 | 284 | 81/10/11 | 0747:00 | 0748:30 | 220 | 185 | 7668 | | 2 | 126, 9 | |
| 3706 | 284 | 81/10/11 | 1240:25 | 1241:05 | 60 | 66 | | | 2 | | |
| 3707 | 284 | 81/10/11 | 1248:00 | 1248:25 | 65 | 59 | | | 2 | | |
| 3708 | 284 | 81/10/11 | 1401:35 | 1401:45 | 30 | 90 | | | 2 | | |
| 3709 | 284 | 81/10/11 | 1511:10 | 1511:50 | 164 | 115 | 2162 | | 2 | 126, 10 | |
| 3710 | 284 | 81/10/11 | 1552:30 | 1552:55 | 171 | 176 | 3937 | | 2 | 126, 11 | |
| 3711 | 284 | 81/10/11 | 1813:55 | 1814:10 | 41 | 109 | 827 | | 2 | 126, 12 | |
| 3712 | 284 | 81/10/11 | 1903:05 | 1903:15 | 30 | 67 | | | 2 | | |
| 3713 | 284 | 81/10/11 | 1910:10 | 1910:30 | 45 | 55 | | | 2 | | |
| 3714 | 284 | 81/10/11 | 2208:00 | 2215:10 | 597 | 174 | 15038 | | 11 | 126, 13 | |
| 3715 | 284 | 81/10/11 | 2351:00 | 2353:05 | 123 | 568 | 27189 | | 14 | 126, 14 | EN |
| 3716 | 285 | 81/10/12 | 0103:35 | 0104:20 | 180 | 102 | | | 2 | | |
| 3717 | 285 | 81/10/12 | 0227:20 | 0229:00 | 648 | 810 | 66617 | | 3 | 126, 15 | |
| 3718 | 285 | 81/10/12 | 0253:10 | 0253:45 | 60 | 69 | | | 2 | | |
| 3719 | 285 | 81/10/12 | 0407:50 | 0408:30 | 176 | 206 | 4139 | | 2 | 126, 16 | |
| 3720 | 285 | 81/10/12 | 0426:20 | 0435:50 | 1117 | 7360 | 2.10E+06 | | 8 | 126, 16 | M, EN |
| 3721 | 285 | 81/10/12 | 0550:45 | 0550:55 | 57 | 214 | 2270 | | 3 | 127, 1 | |
| 3722 | 285 | 81/10/12 | 0556:30 | 0557:00 | 145 | 64 | | | 2 | | |
| 3723 | 285 | 81/10/12 | 0614:05 | 0619:15 | 388 | 105 | 7766 | | 2 | 127, 2 | EN |
| 3724 | 285 | 81/10/12 | 0716:35 | 0729:45 | 2306 | 1572 | 3.44E+05 | | 5 | 127, 13 | M, SA, EN |
| 3725 | 285 | 81/10/12 | 0912:55 | 0914:30 | 140 | 70 | | | 2 | | |
| 3726 | 285 | 81/10/12 | 1034:30 | 1100:00 | 1896 | 12464 | 2.85E+06 | | 5 | 127, 4 | M, SA, EN |
| 3727 | 285 | 81/10/12 | 1141:50 | 1143:25 | 110 | 67 | | | 2 | | |
| 3728 | 285 | 81/10/12 | 1146:45 | 1147:00 | 51 | 123 | 1007 | | 2 | 127, 5 | M |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3729 | 285 | 81/10/12 | 1234:55 | 1235:30 | 96 | 119 | 1669 | | 2 | 127, 6 | |
| 3730 | 285 | 81/10/12 | 1317:00 | 1321:20 | 348 | 180 | 4664 | | 2 | 127, 7 | |
| 3731 | 285 | 81/10/12 | 1413:50 | 1414:55 | 180 | 54 | | | 2 | | |
| 3732 | 285 | 81/10/12 | 1704:15 | 1704:30 | 90 | 98 | | | 2 | | |
| 3733 | 285 | 81/10/12 | 1707:45 | 1709:45 | 240 | 652 | 21307 | | 2 | 127, 8 | M |
| 3734 | 285 | 81/10/12 | 1713:40 | 1714:30 | 120 | 101 | | | 2 | | |
| 3735 | 285 | 81/10/12 | 1718:10 | 1718:50 | 85 | 90 | | | 2 | | |
| 3736 | 285 | 81/10/12 | 1803:10 | 1803:20 | 80 | 140 | 924 | | 2 | 127, 9 | M |
| 3737 | 285 | 81/10/12 | 1804:55 | 1805:40 | 315 | 1766 | 39038 | | 4 | 127, 9 | M |
| 3738 | 285 | 81/10/12 | 1811:25 | 1812:15 | 335 | 182 | 6992 | | 2 | 127, 9 | |
| 3739 | 285 | 81/10/12 | 1827:20 | 1830:05 | 200 | 96 | | | 2 | | |
| 3740 | 285 | 81/10/12 | 1836:55 | 1837:15 | 30 | 87 | | | 2 | | |
| 3741 | 285 | 81/10/12 | 1847:55 | 1850:15 | 209 | 106 | 2049 | | 2 | 127, 9 | |
| 3742 | 285 | 81/10/12 | 1859:35 | 1900:20 | 65 | 55 | | | 2 | | |
| 3743 | 285 | 81/10/12 | 1936:25 | 1945:30 | 874 | 186 | 34344 | | 5 | 127, 10 | SN |
| 3744 | 285 | 81/10/12 | 1955:55 | 1956:55 | 200 | 62 | 8649 | | 2 | 127, 10 | |
| 3745 | 285 | 81/10/12 | 2003:25 | 2003:35 | 57 | 193 | 1649 | | 2 | 127, 10 | |
| 3746 | 285 | 81/10/12 | 2006:00 | 2006:20 | 40 | 90 | | | 2 | | |
| 3747 | 285 | 81/10/12 | 2025:55 | 2026:50 | 217 | 357 | 16147 | | 4 | 127, 10 | |
| 3748 | 285 | 81/10/12 | 2113:50 | 2114:00 | 30 | 74 | | | 2 | | |
| 3749 | 285 | 81/10/12 | 2115:15 | 2120:05 | 675 | 200 | 39584 | | 5 | 127, 11 | |
| 3750 | 285 | 81/10/12 | 2153:05 | 2153:45 | 256 | 103 | | | 2 | 127, 11 | |
| 3751 | 285 | 81/10/12 | 2159:30 | 2203:30 | 339 | 63 | 1970 | | 2 | 127, 11 | |
| 3752 | 285 | 81/10/12 | 2210:41 | 2212:35 | 149 | 218 | 3418 | | 2 | 127, 11 | |
| 3753 | 285 | 81/10/12 | 2256:45 | 2257:40 | 70 | 73 | | | 2 | | |
| 3754 | 285 | 81/10/12 | 2323:40 | 2323:55 | 45 | 56 | | | 2 | | |
| 3755 | 285 | 81/10/12 | 2342:45 | 2344:26 | 120 | 61 | | | 2 | | |
| 3756 | 286 | 81/10/13 | 0024:25 | 0024:35 | 125 | 90 | | | 2 | | |
| 3757 | 286 | 81/10/13 | 0034:55 | 0035:15 | 60 | 81 | | | 4 | | |
| 3758 | 286 | 81/10/13 | 0041:05 | 0041:45 | 95 | 208 | 4252 | | 2 | 127, 12 | |
| 3759 | 286 | 81/10/13 | 0047:35 | 0050:35 | 244 | 405 | 5306 | | 4 | 127, 12 | |
| 3760 | 286 | 81/10/13 | 0103:35 | 0103:50 | 60 | 82 | | | 2 | 127, 12 | |
| 3761 | 286 | 81/10/13 | 0108:00 | 0109:20 | 226 | 265 | 7716 | | 2 | 127, 12 | |
| 3762 | 286 | 81/10/13 | 0250:10 | 0252:15 | 234 | 100 | 4172 | | 2 | 127, 13 | |
| 3763 | 286 | 81/10/13 | 0404:41 | 0407:40 | 195 | 57 | | | 2 | | |
| 3764 | 286 | 81/10/13 | 0412:25 | 0412:55 | 80 | 68 | | | 2 | | |
| 3765 | 286 | 81/10/13 | 0417:40 | 0421:35 | 622 | 215 | 41629 | | 2 | 127, 14 | |
| 3766 | 286 | 81/10/13 | 0535:55 | 0536:10 | 35 | 85 | | | 2 | | |
| 3767 | 286 | 81/10/13 | 0709:30 | 0710:50 | 1808 | 1236 | 1.73E+05 | | 7 | 127, 15 | M |
| 3768 | 286 | 81/10/13 | 0853:00 | 0853:25 | 130 | 70 | | | 2 | | |
| 3769 | 286 | 81/10/13 | 1031:20 | 1032:00 | 105 | 67 | | | 2 | | |
| 3770 | 286 | 81/10/13 | 1034:00 | 1034:15 | 30 | 80 | | | 2 | | |
| 3771 | 286 | 81/10/13 | 1034:40 | 1035:30 | 145 | 60 | | | 2 | | |
| 3772 | 286 | 81/10/13 | 1221:30 | 1222:20 | 180 | 74 | | | 2 | | |
| 3773 | 286 | 81/10/13 | 1359:55 | 1400:30 | 70 | 388 | 4603 | | 4 | 127, 16 | M |
| 3774 | 286 | 81/10/13 | 1628:10 | 1629:40 | 150 | 73 | | | 2 | | |
| 3775 | 286 | 81/10/13 | 1807:35 | 1810:00 | 1539 | 2394 | 1.61E+05 | | 7 | 128, 1 | M |
| 3776 | 286 | 81/10/13 | 1949:30 | 1953:20 | 636 | 108 | 9516 | | 2 | 128, 2 | |
| 3777 | 286 | 81/10/13 | 2015:00 | 2015:15 | 39 | 106 | 698 | | 2 | 128, 2 | |
| 3778 | 286 | 81/10/13 | 2106:10 | 2109:30 | 468 | 220 | 41715 | | 5 | 128, 3 | AX |
| 3779 | 286 | 81/10/13 | 2114:00 | 2115:15 | 103 | 153 | 1839 | | 2 | 128, 3 | |
| 3780 | 286 | 81/10/13 | 2124:00 | 2126:05 | 266 | 216 | 8912 | | 2 | 128, 3 | |
| 3781 | 286 | 81/10/13 | 2157:40 | 2159:20 | 170 | 99 | | | 2 | | AX |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3782 | 287 | 81/10/14 | 0101:55 | 0102:10 | 70 | 71 | | | 2 | | |
| 3805 | 287 | 81/10/14 | 0207:25 | 0209:00 | 130 | 57 | | | 2 | | |
| 3783 | 287 | 81/10/14 | 0350:10 | 0351:30 | 344 | 382 | 16695 | | 5 | 128, 4 | M |
| 3784 | 287 | 81/10/14 | 0404:35 | 0405:35 | 116 | 121 | 1825 | | 2 | 128, 4 | |
| 3785 | 287 | 81/10/14 | 0534:15 | 0535:00 | 91 | 110 | 2065 | | 2 | 128, 6 | |
| 3786 | 287 | 81/10/14 | 0551:55 | 0552:00 | 42 | 204 | 2460 | | 4 | 128, 7 | |
| 3787 | 287 | 81/10/14 | 0725:40 | 0726:55 | 190 | 95 | | | 2 | | |
| 3788 | 287 | 81/10/14 | 1040:45 | 1041:30 | 105 | 60 | | | 2 | | |
| 3789 | 287 | 81/10/14 | 1304:10 | 1304:25 | 76 | 167 | 2883 | | 2 | 128, 8 | M |
| 3790 | 287 | 81/10/14 | 1326:35 | 1327:05 | 145 | 67 | | | 2 | | |
| 3791 | 287 | 81/10/14 | 1442:30 | 1442:55 | 315 | 616 | 35103 | | 5 | 128, 9 | M |
| 3792 | 287 | 81/10/14 | 1504:50 | 1505:50 | 70 | 73 | | | 2 | | |
| 3793 | 287 | 81/10/14 | 1642:30 | 1644:20 | 320 | 880 | 14530 | | 5 | 128, 11 | M |
| 3794 | 287 | 81/10/14 | 1703:20 | 1706:30 | 232 | 44179 | 3.34E+06 | | 15 | 128, 11 | EN |
| 3795 | 287 | 81/10/14 | 1743:05 | 1745:15 | 200 | 70 | | | 2 | | |
| 3796 | 287 | 81/10/14 | 1753:00 | 1753:30 | 70 | 72 | | | 2 | | |
| 3797 | 287 | 81/10/14 | 1806:35 | 1806:50 | 149 | 557 | 10046 | | 5 | 128, 12 | |
| 3798 | 287 | 81/10/14 | 1918:20 | 1923:15 | 518 | 431 | 15344 | | 3 | 128, 13 | |
| 3799 | 287 | 81/10/14 | 1955:30 | 1957:35 | 240 | 62 | 1837 | | 2 | 128, 14 | |
| 3800 | 287 | 81/10/14 | 2053:10 | 2053:50 | 728 | 1669 | 41153 | | 6 | 128, 15 | |
| 3801 | 287 | 81/10/14 | 2134:35 | 2137:20 | 611 | 92 | 7250 | | 4 | 128, 15 | |
| 3802 | 287 | 81/10/14 | 2228:40 | 2229:20 | 50 | 73 | | | 2 | | |
| 3803 | 287 | 81/10/14 | 2300:00 | 2302:00 | 180 | 69 | | | 2 | | |
| 3804 | 287 | 81/10/14 | 2305:30 | 2306:35 | 115 | 60 | | | 2 | | |
| 3806 | 288 | 81/10/15 | 0354:55 | 0355:40 | 94 | 314 | 3635 | | 4 | 128, 16 | |
| 3807 | 288 | 81/10/15 | 0540:25 | 0541:15 | 65 | 86 | | | 2 | | |
| 3808 | 288 | 81/10/15 | 0706:10 | 0706:55 | 66 | 168 | 884 | | 2 | 129, 1 | |
| 3809 | 288 | 81/10/15 | 0715:05 | 0716:15 | 125 | 69 | | | 2 | | |
| 3810 | 288 | 81/10/15 | 0722:50 | 0723:05 | 40 | 86 | | | 2 | | |
| 3811 | 288 | 81/10/15 | 1010:10 | 1010:35 | 45 | 70 | | | 2 | | |
| 3812 | 288 | 81/10/15 | 1113:40 | 1114:00 | 50 | 95 | | | 2 | | |
| 3813 | 288 | 81/10/15 | 1148:20 | 1149:00 | 65 | 77 | | | 2 | | |
| 3814 | 288 | 81/10/15 | 1202:30 | 1203:10 | 242 | 235 | 14435 | | 2 | 129, 2 | |
| 3815 | 288 | 81/10/15 | 1247:55 | 1248:05 | 20 | 62 | | | 2 | | |
| 3816 | 288 | 81/10/15 | 1255:05 | 1255:40 | 60 | 129 | 1431 | | 2 | 129, 3 | |
| 3817 | 288 | 81/10/15 | 1335:50 | 1336:30 | 45 | 63 | | | 2 | | |
| 3818 | 288 | 81/10/15 | 1557:40 | 1557:40 | 174 | 238 | 1998 | | 3 | 129, 4 | SN |
| 3819 | 288 | 81/10/15 | 1604:20 | 1605:05 | 76 | 114 | 2019 | | 2 | 129, 5 | |
| 3820 | 288 | 81/10/15 | 1626:50 | 1627:00 | 31 | 142 | 710 | | 2 | 129, 6 | |
| 3821 | 288 | 81/10/15 | 1633:25 | 1633:50 | 65 | 98 | | | 2 | | |
| 3822 | 288 | 81/10/15 | 2043:05 | 2049:10 | 547 | 202 | 26519 | | 6 | 129, 7 | |
| 3823 | 288 | 81/10/15 | 2125:35 | 2127:20 | 197 | 73 | | | 4 | | |
| 3824 | 288 | 81/10/15 | 2132:15 | 2132:40 | 64 | 142 | 1334 | | 2 | 129, 8 | |
| 3825 | 288 | 81/10/15 | 2141:25 | 2142:15 | 82 | 165 | 1205 | | 2 | 129, 8 | |
| 3826 | 288 | 81/10/15 | 2220:50 | 2231:10 | 165 | 453 | 10899 | | 4 | 129, 9 | M |
| 3827 | 288 | 81/10/15 | 2302:25 | 2303:10 | 208 | 2799 | 69158 | | 5 | 129, 11 | |
| 3828 | 289 | 81/10/16 | 0020:40 | 0021:10 | 125 | 105 | 2239 | | 2 | 129, 12 | |
| 3829 | 289 | 81/10/16 | 0144:50 | 0145:25 | 65 | 100 | | | 5 | | |
| 3830 | 289 | 81/10/16 | 0217:35 | 0218:40 | 185 | 79 | | | 2 | | |
| 3831 | 289 | 81/10/16 | 0223:20 | 0223:30 | 20 | 65 | | | 2 | | |
| 3832 | 289 | 81/10/16 | 0227:35 | 0229:00 | 100 | 74 | | | 2 | | |
| 3833 | 289 | 81/10/16 | 0314:00 | 0315:40 | 319 | 207 | 13554 | | 2 | 129, 13 | SN |
| 3834 | 289 | 81/10/16 | 0324:40 | 0324:55 | 35 | 72 | | | 2 | | |

ORIGINAL PAGE []
OF POOR QUALITY

91

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 3835 | 289 | 81/10/16 | 0333:30 | 0333:55 | 45 | 72 | | | 2 | | |
| 3836 | 289 | 81/10/16 | 0349:45 | 0350:50 | 200 | 1096 | 32935 | | 5 | 129, 14 | M |
| 3837 | 289 | 81/10/16 | 0353:10 | 0353:25 | 108 | 253 | 6828 | | 5 | 129, 14 | M |
| 3838 | 289 | 81/10/16 | 0401:55 | 0402:30 | 91 | 519 | 6102 | | 5 | 129, 14 | |
| 3839 | 289 | 81/10/16 | 0527:35 | 0528:35 | 110 | 228 | 3949 | | 4 | 129, 15 | |
| 3840 | 289 | 81/10/16 | 0633:50 | 0636:05 | 678 | 1008 | 83065 | | 4 | 129, 16 | M |
| 3841 | 289 | 81/10/16 | 0648:00 | 0649:45 | 173 | 103 | 3404 | | 2 | 129, 16 | |
| 3842 | 289 | 81/10/16 | 0655:05 | 0655:35 | 57 | 145 | 971 | | 2 | 129, 16 | |
| 3843 | 289 | 81/10/16 | 0811:30 | 0811:45 | 56 | 129 | 730 | | 2 | 130, 1 | |
| 3844 | 289 | 81/10/16 | 0827:35 | 0829:35 | 449 | 162 | 15475 | | 2 | 130, 1 | |
| 3845 | 289 | 81/10/16 | 0842:05 | 0843:40 | 128 | 227 | 3168 | | 4 | 130, 1 | M |
| 3846 | 289 | 81/10/16 | 0845:25 | 0845:40 | 115 | 72 | | | 2 | | |
| 3847 | 289 | 81/10/16 | 1001:55 | 1002:20 | 49 | 150 | 783 | | 2 | 130, 2 | |
| 3848 | 289 | 81/10/16 | 1021:15 | 1023:20 | 150 | 81 | | | 2 | | |
| 3849 | 289 | 81/10/16 | 1150:25 | 1152:50 | 459 | 182 | 64472 | | 2 | 130, 3 | |
| 3850 | 289 | 81/10/16 | 1236:20 | 1246:00 | 579 | 195 | 9389 | | 3 | 130, 4 | M, ES |
| 3851 | 289 | 81/10/16 | 1732:55 | 1733:10 | 175 | 84 | | | 2 | | |
| 3852 | 289 | 81/10/16 | 1746:55 | 1748:35 | 185 | 56 | | | 2 | | |
| 3853 | 289 | 81/10/16 | 2032:55 | 2037:25 | 383 | 156 | 5708 | | 6 | 130, 5 | |
| 3854 | 289 | 81/10/16 | 2048:10 | 2051:45 | 383 | 103 | 6439 | | 2 | 130, 5 | |
| 3855 | 289 | 81/10/16 | 2110:10 | 2110:40 | 45 | 64 | | | 2 | | |
| 3856 | 289 | 81/10/16 | 2211:15 | 2211:45 | 60 | 62 | | | 2 | | |
| 3857 | 289 | 81/10/16 | 2216:00 | 2216:30 | 85 | 61 | | | 2 | | |
| 3858 | 289 | 81/10/16 | 2226:20 | 2232:40 | 615 | 96 | 9328 | | 2 | 130, 6 | |
| 3859 | 289 | 81/10/16 | 2353:00 | 2353:20 | 42 | 310 | 1879 | | 2 | 130, 7 | |
| 3860 | 289 | 81/10/16 | 2354:30 | 2355:50 | 176 | 209 | 6924 | | 2 | 130, 7 | |
| 3861 | 290 | 81/10/17 | 0150:20 | 0150:45 | 73 | 223 | 2895 | | 3 | 130, 8 | |
| 3862 | 290 | 81/10/17 | 0313:50 | 0314:05 | 64 | 1056 | 7133 | | 4 | 130, 9 | M |
| 3863 | 290 | 81/10/17 | 0333:35 | 0334:15 | 104 | 118 | 5007 | | 2 | | |
| 3864 | 290 | 81/10/17 | 0501:50 | 0502:20 | 120 | 100 | | | 2 | | |
| 3865 | 290 | 81/10/17 | 0517:05 | 0517:30 | 85 | 77 | | | 2 | | |
| 3866 | 290 | 81/10/17 | 0518:45 | 0520:05 | 145 | 66 | | | 2 | | |
| 3867 | 290 | 81/10/17 | 0955:55 | 0956:20 | 89 | 218 | 3142 | | 2 | 130, 11 | |
| 3868 | 290 | 81/10/17 | 1127:40 | 1128:45 | 175 | 83 | | | 2 | | |
| 3869 | 290 | 81/10/17 | 1140:55 | 1141:40 | 150 | 81 | | | 2 | | |
| 3870 | 290 | 81/10/17 | 1443:20 | 1445:20 | 268 | 75 | | | 2 | 130, 12 | |
| 3872 | 290 | 81/10/17 | 1538:35 | 1539:00 | 30 | 314 | 2720 | | 4 | 130, 13 | |
| 3871 | 290 | 81/10/17 | 1542:40 | 1543:20 | 95 | 84 | | | 2 | | |
| 3873 | 290 | 81/10/17 | 1613:50 | 1614:45 | 250 | 191 | 9385 | | 2 | 130, 14 | |
| 3874 | 290 | 81/10/17 | 1624:25 | 1625:05 | 85 | 74 | | | 2 | | |
| 3875 | 290 | 81/10/17 | 1744:50 | 1748:20 | 572 | 147 | 18829 | | 2 | 130, 15 | |
| 3876 | 290 | 81/10/17 | 1926:45 | 1927:50 | 125 | 91 | | | 2 | | |
| 3877 | 290 | 81/10/17 | 2024:10 | 2024:45 | 95 | 70 | | | 2 | | |
| 3878 | 290 | 81/10/17 | 2333:30 | 2334:25 | 115 | 62 | | | 2 | | |
| 3879 | 290 | 81/10/17 | 2355:55 | 2356:25 | 137 | 104 | 2119 | | 2 | 131, 1 | |
| 3880 | 291 | 81/10/18 | 0009:55 | 0010:10 | 82 | 539 | 5339 | | 3 | 131, 2 | |
| 3881 | 291 | 81/10/18 | 0022:00 | 0023:10 | 140 | 78 | | | 2 | | |
| 3882 | 291 | 81/10/18 | 0205:35 | 0206:20 | 137 | 209 | 2861 | | 2 | 131, 3 | |
| 3883 | 291 | 81/10/18 | 0208:55 | 0209:10 | 40 | 60 | | | 2 | | |
| 3884 | 291 | 81/10/18 | 0436:30 | 0437:05 | 75 | 73 | | | 2 | | |
| 3885 | 291 | 81/10/18 | 0451:35 | 0451:55 | 65 | 60 | | | 2 | | |
| 3886 | 291 | 81/10/18 | 0641:45 | 0642:10 | 45 | 77 | | | 2 | | |
| 3887 | 291 | 81/10/18 | 1103:15 | 1122:55 | 2362 | 2021 | 9.82E+05 | | 11 | 131, 4 | M, SA, EN |

ORIGINAL PAGE IS
OF POOR QUALITY

92

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 3889 | 291 | 81/10/18 | 1221:10 | 1222:20 | 85 | 98 | | | 2 | | |
| 3890 | 291 | 81/10/18 | 1601:35 | 1604:05 | 321 | 360 | 11525 | | 3 | 131, 5 | |
| 3891 | 291 | 81/10/18 | 1722:10 | 1722:45 | 40 | 65 | | | 2 | | |
| 3892 | 291 | 81/10/18 | 1727:55 | 1729:20 | 248 | 180 | 4886 | | 2 | 131, 6 | |
| 3893 | 291 | 81/10/18 | 2011:10 | 2014:40 | 375 | 92 | 10851 | | 4 | 131, 6 | |
| 3894 | 291 | 81/10/18 | 2100:10 | 2100:42 | 100 | 62 | | | 2 | | |
| 3895 | 291 | 81/10/18 | 2155:55 | 2155:57 | 18 | 70 | | | 2 | | |
| 3896 | 292 | 81/10/19 | 0101:00 | 0101:40 | 35 | 95 | | | 2 | | |
| 3897 | 292 | 81/10/19 | 0154:30 | 0154:50 | 140 | 97 | | | 2 | | |
| 3898 | 292 | 81/10/19 | 0308:20 | 0313:00 | 1282 | 318 | 74639 | | 4 | 131, 8 | |
| 3899 | 292 | 81/10/19 | 0941:05 | 0941:20 | 40 | 199 | 1363 | | 5 | 131, 9 | |
| 3900 | 292 | 81/10/19 | 0942:35 | 0943:25 | 95 | 66 | | | 2 | | |
| 3901 | 292 | 81/10/19 | 1207:35 | 1208:35 | 180 | 66 | | | 2 | | |
| 3902 | 292 | 81/10/19 | 1224:45 | 1225:40 | 180 | 79 | | | 2 | | |
| 3903 | 292 | 81/10/19 | 1241:25 | 1242:40 | 182 | 113 | 1243 | | 2 | 131, 10 | |
| 3904 | 292 | 81/10/19 | 1245:50 | 1246:02 | 30 | 61 | | | 2 | | |
| 3905 | 292 | 81/10/19 | 1556:25 | 1557:15 | 180 | 97 | | | 2 | | |
| 3906 | 292 | 81/10/19 | 1600:35 | 1600:50 | 55 | 112 | 1010 | | 2 | 131, 11 | |
| 3907 | 292 | 81/10/19 | 1852:10 | 1852:25 | 60 | 74 | | | 2 | | |
| 3908 | 292 | 81/10/19 | 1918:00 | 1918:55 | 134 | 306 | 5864 | | 4 | 131, 12 | |
| 3909 | 292 | 81/10/19 | 2018:55 | 2019:10 | 30 | 56 | | | 2 | | |
| 3910 | 292 | 81/10/19 | 2034:35 | 2036:20 | 178 | 150 | 7997 | | 2 | 131, 13 | |
| 3911 | 292 | 81/10/19 | 2324:20 | 2326:40 | 185 | 79 | | | 2 | | |
| 3912 | 293 | 81/10/20 | 0122:15 | 0123:25 | 152 | 516 | 8613 | | 5 | 131, 14 | |
| 3913 | 293 | 81/10/20 | 0148:35 | 0149:45 | 105 | 55 | | | 2 | | |
| 3914 | 293 | 81/10/20 | 0307:20 | 0307:40 | 98 | 190 | 2559 | | 2 | 131, 15 | |
| 3915 | 293 | 81/10/20 | 0315:45 | 0317:05 | 536 | 109 | 14290 | | 2 | 131, 15 | |
| 3916 | 293 | 81/10/20 | 0438:00 | 0438:25 | 80 | 75 | | | 2 | | |
| 3917 | 293 | 81/10/20 | 0553:05 | 0553:45 | 102 | 378 | 5776 | | 4 | 131, 16 | M |
| 3918 | 293 | 81/10/20 | 0732:10 | 0734:30 | 172 | 233 | 2284 | | 4 | 132, 1 | |
| 3919 | 293 | 81/10/20 | 0740:15 | 0740:40 | 45 | 75 | | | 2 | | |
| 3920 | 293 | 81/10/20 | 0742:00 | 0742:10 | 55 | 92 | | | 2 | | |
| 3921 | 293 | 81/10/20 | 0944:25 | 0944:50 | 48 | 129 | 1238 | | 4 | 132, 2 | |
| 3922 | 293 | 81/10/20 | 1203:50 | 1204:25 | 65 | 65 | | | 2 | | |
| 3923 | 293 | 81/10/20 | 1242:05 | 1242:35 | 135 | 146 | 3343 | | 2 | 132, 3 | |
| 3924 | 293 | 81/10/20 | 1349:10 | 1350:10 | 126 | 147 | 1573 | | 4 | 132, 4 | |
| 3925 | 293 | 81/10/20 | 1419:25 | 1421:25 | 832 | 147 | 31104 | | 2 | 132, 5 | |
| 3926 | 293 | 81/10/20 | 1508:15 | 1510:30 | 470 | 90 | 5277 | | 2 | 132, 6 | |
| 3927 | 293 | 81/10/20 | 1951:25 | 1951:30 | 126 | 230 | 9603 | | 6 | 132, 7 | SN, AX |
| 3928 | 293 | 81/10/20 | 2025:05 | 2034:00 | 945 | 123 | 31067 | | 5 | 132, 8 | M |
| 3929 | 293 | 81/10/20 | 2130:50 | 2131:30 | 65 | 89 | | | 2 | | |
| 3930 | 293 | 81/10/20 | 2204:40 | 2217:55 | 945 | 108 | 16686 | | 8 | 132, 9 | AX |
| 3931 | 293 | 81/10/20 | 2303:50 | 2304:25 | 75 | 55 | | | 2 | | |
| 3932 | 293 | 81/10/20 | 2313:00 | 2314:25 | 170 | 56 | | | 2 | | |
| 3933 | 293 | 81/10/20 | 2315:35 | 2321:05 | 179 | 173 | 7076 | | 2 | 132, 10 | |
| 3934 | 293 | 81/10/20 | 2326:05 | 2326:30 | 95 | 73 | | | 2 | | |
| 3935 | 294 | 81/10/21 | 0045:35 | 0046:20 | 90 | 92 | | | 2 | | |
| 3936 | 294 | 81/10/21 | 0425:55 | 0427:15 | 150 | 70 | | | 2 | | |
| 3937 | 294 | 81/10/21 | 0437:15 | 0437:50 | 170 | 64 | | | 2 | | |
| 3938 | 294 | 81/10/21 | 0613:05 | 0618:10 | 809 | 248 | 38860 | | 2 | 132, 11 | EN |
| 3939 | 294 | 81/10/21 | 0739:05 | 0739:40 | 1018 | 531 | 20225 | | 5 | 132, 12 | |
| 3940 | 294 | 81/10/21 | 0800:10 | 0800:45 | 75 | 70 | | | 2 | | |
| 3941 | 294 | 81/10/21 | 1320:40 | 1334:55 | 1141 | 83 | 3657 | | 2 | 132, 13 | |

ORIGINAL QUALITY
OF POOR QUALITY

93

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3942 | 294 | 81/10/21 | 1721:00 | 1723:20 | 367 | 866 | 33624 | | 5 | 132, 14 | |
| 3943 | 294 | 81/10/21 | 2305:25 | 2307:10 | 342 | 4748 | 2.61E+05 | | 8 | 132, 15 | M |
| 3944 | 294 | 81/10/21 | 2312:25 | 2316:40 | 420 | 82 | 6074 | | 2 | 132, 15 | |
| 3945 | 295 | 81/10/22 | 0049:25 | 0051:25 | 145 | 82 | | | 2 | | |
| 3946 | 295 | 81/10/22 | 0109:10 | 0109:55 | 85 | 78 | | | 2 | | |
| 3947 | 295 | 81/10/22 | 0530:45 | 0531:00 | 45 | 94 | | | 2 | | |
| 3948 | 295 | 81/10/22 | 1217:05 | 1217:45 | 88 | 109 | 2045 | | 2 | 133, 1 | |
| 3949 | 295 | 81/10/22 | 1222:10 | 1222:30 | 155 | 96 | | | 2 | | |
| 3950 | 295 | 81/10/22 | 1452:10 | 1453:45 | 199 | 762 | 20180 | | 4 | 133, 2 | M |
| 3951 | 295 | 81/10/22 | 1501:45 | 1502:50 | 160 | 66 | | | 2 | | |
| 3952 | 295 | 81/10/22 | 2004:45 | 2005:50 | 170 | 63 | | | 3 | | |
| 3953 | 295 | 81/10/22 | 2027:00 | 2027:20 | 42 | 129 | 3253 | | 2 | 133, 4 | |
| 3954 | 295 | 81/10/22 | 2146:05 | 2148:40 | 190 | 65 | | | 4 | | |
| 3955 | 295 | 81/10/22 | 2254:50 | 2255:20 | 60 | 82 | | | 2 | | |
| 3956 | 296 | 81/10/23 | 0026:00 | 0029:55 | 335 | 223 | 7959 | | 2 | 133, 5 | |
| 3957 | 296 | 81/10/23 | 0103:50 | 0104:30 | 70 | 88 | | | 2 | | |
| 3958 | 296 | 81/10/23 | 0238:35 | 0239:50 | 207 | 202 | 11060 | | 2 | 133, 6 | |
| 3959 | 296 | 81/10/23 | 1757:05 | 1759:35 | 298 | 126 | 4145 | | 3 | 133, 7 | |
| 3960 | 296 | 81/10/23 | 2259:25 | 2300:00 | 60 | 60 | | | 2 | | |
| 3961 | 297 | 81/10/24 | 0547:50 | 0548:20 | 60 | 71 | | | 2 | | |
| 3962 | 297 | 81/10/24 | 1440:05 | 1440:15 | 40 | 67 | | | 2 | | |
| 3963 | 297 | 81/10/24 | 1517:40 | 1518:10 | 103 | 378 | 6918 | | 4 | 133, 8 | |
| 3964 | 297 | 81/10/24 | 1824:55 | 1825:20 | 45 | 83 | | | 2 | | |
| 3965 | 297 | 81/10/24 | 2318:10 | 2318:25 | 38 | 117 | 939 | | 2 | 133, 9 | |
| 3966 | 298 | 81/10/25 | 0048:35 | 0049:05 | 85 | 81 | | | 2 | | |
| 3967 | 298 | 81/10/25 | 0135:10 | 0135:30 | 50 | 90 | | | 2 | | |
| 3968 | 298 | 81/10/25 | 0315:15 | 0315:55 | 50 | 84 | | | 2 | | |
| 3969 | 298 | 81/10/25 | 1448:25 | 1449:30 | 150 | 327 | 12543 | | 2 | 133, 10 | |
| 3970 | 298 | 81/10/25 | 1804:05 | 1804:20 | 45 | 72 | | | 2 | | |
| 3971 | 300 | 81/10/27 | 0945:40 | 0947:35 | 244 | 111 | 4621 | | 2 | 133, 11 | |
| 3972 | 301 | 81/10/28 | 0648:35 | 0649:00 | 60 | 65 | | | 2 | | |
| 3973 | 301 | 81/10/28 | 0954:30 | 0955:05 | 80 | 81 | | | 2 | | |
| 3974 | 301 | 81/10/28 | 2051:15 | 2052:35 | 155 | 262 | 7567 | | 2 | 133, 12 | ES |
| 3975 | 301 | 81/10/28 | 2338:50 | 2339:20 | 75 | 78 | | | 2 | | |
| 3976 | 302 | 81/10/29 | 1126:15 | 1126:35 | 60 | 71 | | | 2 | | |
| 3977 | 302 | 81/10/29 | 1705:50 | 1706:05 | 55 | 97 | | | 2 | | |
| 3978 | 302 | 81/10/29 | 2004:30 | 2006:10 | 156 | 242 | 2526 | | 2 | 133, 13 | |
| 3979 | 304 | 81/10/31 | 0540:10 | 0541:40 | 170 | 70 | | | 2 | | |
| 3980 | 304 | 81/10/31 | 0717:50 | 0718:10 | 50 | 66 | | | 2 | | |
| 3981 | 304 | 81/10/31 | 1818:05 | 1818:25 | 46 | 177 | 1348 | | 3 | 133, 14 | |
| 3982 | 304 | 81/10/31 | 1838:25 | 1838:40 | 30 | 97 | | | 2 | | |
| 3983 | 305 | 81/11/01 | 0610:15 | 0611:15 | 118 | 152 | 4912 | | 2 | 133, 15 | |
| 3984 | 305 | 81/11/01 | 0916:35 | 0917:35 | 130 | 64 | | | 2 | | |
| 3985 | 305 | 81/11/01 | 1449:00 | 1451:40 | 195 | 81 | | | 2 | | |
| 3986 | 305 | 81/11/01 | 1629:15 | 1631:45 | 570 | 92 | 5463 | | 5 | 133, 16 | AX |
| 3987 | 305 | 81/11/01 | 1642:55 | 1646:30 | 346 | 104 | 6052 | | 2 | 133, 16 | |
| 3988 | 305 | 81/11/01 | 1810:10 | 1813:05 | 478 | 2732 | 78750 | | 10 | 134, 1 | M |
| 3989 | 305 | 81/11/01 | 2105:15 | 2106:05 | 135 | 992 | 8078 | | 5 | 134, 2 | |
| 3990 | 305 | 81/11/01 | 2108:15 | 2110:05 | 220 | 98 | 3241 | | 2 | 134, 2 | |
| 3991 | 305 | 81/11/01 | 2254:45 | 2255:10 | 220 | 1137 | 18495 | | 9 | 134, 3 | M |
| 3992 | 306 | 81/11/02 | 0031:55 | 0032:30 | 100 | 88 | | | 2 | | |
| 3993 | 306 | 81/11/02 | 0045:15 | 0046:15 | 88 | 125 | 1061 | | 2 | 134, 5 | |
| 3994 | 306 | 81/11/02 | 0151:02 | 0151:30 | 60 | 69 | | | 2 | | |

ORIGINAL RECORD
OF POOR QUALITY

94

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 3995 | 306 | 81/11/02 | 0232:00 | 0232:55 | 120 | 62 | | | 2 | | |
| 3996 | 306 | 81/11/02 | 0241:35 | 0242:05 | 71 | 167 | 621 | | 3 | 134, 6 | |
| 3997 | 306 | 81/11/02 | 0350:00 | 0350:10 | 40 | 61 | | | 2 | | |
| 3998 | 306 | 81/11/02 | 0536:00 | 0536:30 | 65 | 57 | | | 2 | | |
| 3999 | 306 | 81/11/02 | 0722:25 | 0722:45 | 50 | 79 | | | 2 | | |
| 4000 | 306 | 81/11/02 | 0816:40 | 0818:55 | 175 | 83 | | | 2 | | |
| 4001 | 306 | 81/11/02 | 1213:10 | 1213:50 | 222 | 894 | 17304 | | 5 | 134, 7 | |
| 4002 | 306 | 81/11/02 | 1500:40 | 1500:50 | 45 | 62 | | | 2 | | |
| 4003 | 306 | 81/11/02 | 1747:30 | 1748:05 | 196 | 75 | | | 2 | | |
| 4004 | 306 | 81/11/02 | 2125:25 | 2127:05 | 272 | 146 | 5421 | | 2 | 134, 8 | |
| 4005 | 306 | 81/11/02 | 2254:05 | 2255:05 | 78 | 124 | 1730 | | 2 | 134, 9 | M |
| 4006 | 306 | 81/11/02 | 2257:10 | 2257:45 | 55 | 115 | 590 | | 2 | 134, 9 | |
| 4007 | 307 | 81/11/03 | 0408:55 | 0409:35 | 155 | 75 | | | 2 | | |
| 4008 | 307 | 81/11/03 | 0531:55 | 0532:15 | 76 | 127 | 1254 | | 2 | 134, 11 | |
| 4009 | 307 | 81/11/03 | 0626:35 | 0633:30 | 1530 | 370 | 1.48E+05 | | 2 | 134, 12 | M |
| 4010 | 307 | 81/11/03 | 0833:25 | 0834:05 | 60 | 85 | | | 2 | | |
| 4011 | 307 | 81/11/03 | 0944:50 | 0945:15 | 65 | 69 | | | 2 | | |
| 4012 | 307 | 81/11/03 | 1343:20 | 1343:45 | 50 | 67 | | | 2 | | |
| 4013 | 308 | 81/11/04 | 0151:05 | 0152:55 | 183 | 156 | 2102 | | 2 | 134, 13 | |
| 4014 | 308 | 81/11/04 | 0636:40 | 0637:55 | 130 | 68 | | | 2 | | |
| 4015 | 308 | 81/11/04 | 0804:05 | 0804:35 | 85 | 71 | | | 2 | | |
| 4016 | 308 | 81/11/04 | 0822:35 | 0824:20 | 196 | 301 | 2857 | | 5 | 134, 14 | |
| 4017 | 308 | 81/11/04 | 0953:10 | 0953:35 | 121 | 235 | 4233 | | 4 | 134, 15 | |
| 4018 | 308 | 81/11/04 | 1103:25 | 1109:35 | 621 | 229 | 21419 | | 2 | 134, 16 | M |
| 4019 | 308 | 81/11/04 | 1120:35 | 1121:10 | 60 | 59 | | | 2 | | |
| 4020 | 308 | 81/11/04 | 2221:00 | 2221:55 | 110 | 77 | | | 2 | | |
| 4021 | 308 | 81/11/04 | 2223:10 | 2223:20 | 60 | 75 | | | 2 | | |
| 4022 | 309 | 81/11/05 | 0030:10 | 0031:05 | 154 | 202 | 4034 | | 3 | 135, 1 | |
| 4023 | 309 | 81/11/05 | 0119:10 | 0119:30 | 65 | 70 | | | 2 | | |
| 4024 | 309 | 81/11/05 | 0211:25 | 0212:00 | 339 | 1204 | 71088 | | 9 | 135, 2 | |
| 4025 | 309 | 81/11/05 | 0831:40 | 0833:10 | 478 | 3779 | 2.66E+05 | | 10 | 135, 3 | M |
| 4026 | 309 | 81/11/05 | 1237:10 | 1238:50 | 730 | 1013 | 1.24E+05 | | 10 | 135, 4 | EN |
| 4027 | 309 | 81/11/05 | 1404:35 | 1406:25 | 302 | 194 | 12290 | | 2 | 135, 5 | M |
| 4028 | 309 | 81/11/05 | 1730:45 | 1732:05 | 200 | 253 | 1708 | | 4 | 135, 7 | |
| 4029 | 310 | 81/11/06 | 0000:05 | 0001:30 | 131 | 774 | 9355 | | 5 | 135, 8 | M |
| 4030 | 310 | 81/11/06 | 1444:30 | 1444:40 | 35 | 83 | | | 2 | | |
| 4031 | 310 | 81/11/06 | 1544:45 | 1545:55 | 140 | 78 | | | 2 | | |
| 4032 | 310 | 81/11/06 | 2018:00 | 2020:30 | 180 | 85 | | | 2 | | |
| 4033 | 311 | 81/11/07 | 0301:35 | 0302:30 | 134 | 346 | | | 4 | 135, 10 | ND |
| 4034 | 311 | 81/11/07 | 0311:20 | 0312:10 | 85 | 79 | | | 2 | | ND |
| 4035 | 311 | 81/11/07 | 0317:20 | 0317:35 | 85 | 85 | | | 2 | | |
| 4036 | 311 | 81/11/07 | 0718:45 | 0719:40 | 304 | 206 | 8711 | | 2 | 135, 11 | |
| 4037 | 311 | 81/11/07 | 0810:30 | 0810:55 | 57 | 114 | 766 | | 2 | 135, 12 | |
| 4038 | 312 | 81/11/08 | 0124:10 | 0124:25 | 37 | 184 | 675 | | 2 | 135, 13 | |
| 4039 | 312 | 81/11/08 | 0315:55 | 0318:15 | 325 | 550 | 66405 | | 3 | 135, 14 | M |
| 4040 | 312 | 81/11/08 | 0357:30 | 0358:10 | 160 | 1819 | 74482 | | 5 | 135, 15 | |
| 4041 | 312 | 81/11/08 | 1055:45 | 1056:35 | 105 | 90 | | | 2 | | |
| 4042 | 312 | 81/11/08 | 2347:00 | 2347:25 | 64 | 150 | 1410 | | 2 | 135, 16 | |
| 4043 | 313 | 81/11/09 | 0054:00 | 0054:30 | 65 | 62 | | | 2 | | |
| 4044 | 313 | 81/11/09 | 0443:50 | 0445:05 | 130 | 67 | | | 2 | | |
| 4045 | 313 | 81/11/09 | 0541:30 | 0541:40 | 20 | 83 | | | 2 | | |
| 4046 | 313 | 81/11/09 | 0613:25 | 0614:40 | 456 | 210 | 11269 | | 3 | 136, 1 | |
| 4047 | 313 | 81/11/09 | 0928:45 | 0929:45 | 176 | 792 | 9957 | | 5 | 136, 2 | |

ORIGINAL PAGE 13
OF POOR QUALITY

95

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4048 | 313 | 81/11/09 | 1019:55 | 1020:10 | 20 | 57 | | | 2 | | |
| 4049 | 313 | 81/11/09 | 1022:10 | 1022:55 | 105 | 77 | | | 2 | | |
| 4050 | 313 | 81/11/09 | 1231:35 | 1239:00 | 624 | 585 | | | 4 | 136, 3 | M |
| 4051 | 313 | 81/11/09 | 1318:15 | 1318:30 | 1081 | 266 | 47364 | | 7 | 136, 4 | SN,ES |
| 4052 | 314 | 81/11/10 | 0355:30 | 0357:05 | 145 | 61 | | | 2 | | |
| 4053 | 314 | 81/11/10 | 0531:40 | 0531:55 | 145 | 68 | | | 2 | | |
| 4054 | 314 | 81/11/10 | 0544:20 | 0546:30 | 680 | 3156 | 2.31E+05 | | 7 | 136, 5 | |
| 4055 | 314 | 81/11/10 | 1458:50 | 1459:30 | 207 | 141 | 5251 | | 2 | 136, 6 | |
| 4056 | 314 | 81/11/10 | 1621:30 | 1622:25 | 133 | 422 | 4786 | | 3 | 136, 7 | M |
| 4057 | 314 | 81/11/10 | 1715:10 | 1716:20 | 140 | 91 | | | 2 | | |
| 4058 | 315 | 81/11/11 | 0029:35 | 0030:00 | 276 | 174 | 5624 | | 2 | 136, 9 | M |
| 4059 | 315 | 81/11/11 | 0334:00 | 0335:00 | 195 | 74 | | | 2 | | |
| 4060 | 315 | 81/11/11 | 0343:25 | 0343:55 | 112 | 206 | 3696 | | 4 | 136, 11 | |
| 4061 | 315 | 81/11/11 | 0659:40 | 0701:15 | 130 | 99 | | | 2 | | |
| 4062 | 315 | 81/11/11 | 0718:25 | 0719:25 | 86 | 198 | 4184 | | 4 | 136, 12 | |
| 4063 | 315 | 81/11/11 | 0733:15 | 0733:45 | 75 | 100 | | | 2 | | |
| 4064 | 315 | 81/11/11 | 0849:10 | 0851:05 | 764 | 638 | 62744 | | 5 | 136, 13 | M |
| 4065 | 315 | 81/11/11 | 1127:10 | 1128:30 | 138 | 539 | 8376 | | 5 | 136, 14 | M |
| 4066 | 315 | 81/11/11 | 1216:10 | 1217:00 | 90 | 60 | | | 2 | | |
| 4067 | 315 | 81/11/11 | 1259:50 | 1300:40 | 218 | 124 | 4500 | | 2 | 136, 15 | |
| 4068 | 315 | 81/11/11 | 1448:25 | 1449:20 | 123 | 445 | 12017 | | 5 | 136, 16 | M,EN |
| 4069 | 315 | 81/11/11 | 1949:15 | 1953:44 | 285 | 113 | 6158 | | 3 | 137, 1 | ES,AX |
| 4070 | 315 | 81/11/11 | 2304:30 | 2311:10 | 623 | 78 | 7387 | | 3 | 137, 2 | AX |
| 4071 | 316 | 81/11/12 | 0058:50 | 0059:15 | 75 | 83 | | | 2 | | |
| 4072 | 316 | 81/11/12 | 0152:15 | 0153:05 | 166 | 300 | 13032 | | 5 | 137, 3 | |
| 6269 | 316 | 81/11/12 | 0337:42 | 0338:18 | 557 | 1711 | 63740 | | 7 | 195, 3 | M,I |
| 6293 | 316 | 81/11/12 | 0624:14 | 0627:44 | 709 | 170 | 27617 | | 2 | 195, 11 | I |
| 4073 | 316 | 81/11/12 | 1111:00 | 1111:45 | 175 | 64 | | | 2 | | |
| 4074 | 316 | 81/11/12 | 1203:00 | 1203:55 | 153 | 93 | | | 2 | | |
| 4075 | 316 | 81/11/12 | 1917:00 | 1918:30 | 175 | 72 | | | 2 | | |
| 4076 | 316 | 81/11/12 | 1921:05 | 1922:10 | 188 | 121 | 4129 | | 3 | 137, 4 | |
| 4077 | 316 | 81/11/12 | 1931:05 | 1931:40 | 50 | 67 | | | 2 | | |
| 4078 | 316 | 81/11/12 | 2102:35 | 2103:45 | 200 | 365 | 6542 | | 4 | 137, 5 | |
| 4100 | 316 | 81/11/12 | 2355:00 | 2356:25 | 146 | 269 | 6760 | | 3 | 137, 12 | |
| 4079 | 317 | 81/11/13 | 0014:40 | 0015:20 | 245 | 129 | 3786 | | 3 | 137, 6 | |
| 4080 | 317 | 81/11/13 | 0026:05 | 0027:35 | 135 | 78 | | | 2 | | |
| 4081 | 317 | 81/11/13 | 0031:50 | 0034:50 | 270 | 109 | 3199 | | 2 | 137, 6 | |
| 4082 | 317 | 81/11/13 | 0049:25 | 0050:15 | 134 | 201 | 5660 | | 4 | 137, 6 | |
| 4083 | 317 | 81/11/13 | 0137:40 | 0137:45 | 145 | 81 | | | 2 | | |
| 4084 | 317 | 81/11/13 | 0142:05 | 0142:30 | 105 | 96 | | | 2 | | |
| 4085 | 317 | 81/11/13 | 0144:15 | 0145:45 | 170 | 74 | | | 2 | | |
| 4086 | 317 | 81/11/13 | 0154:00 | 0156:00 | 468 | 112 | 11189 | | 2 | 137, 7 | |
| 4087 | 317 | 81/11/13 | 0322:05 | 0327:10 | 488 | 94 | 5533 | | 2 | 137, 8 | |
| 4088 | 317 | 81/11/13 | 0332:15 | 0334:10 | 222 | 1494 | 28616 | | 10 | 137, 8 | |
| 4089 | 317 | 81/11/13 | 0343:05 | 0343:25 | 58 | 218 | 2417 | | 4 | 137, 8 | |
| 4090 | 317 | 81/11/13 | 0346:30 | 0347:25 | 392 | 74 | 3824 | | 2 | 137, 8 | |
| 4091 | 317 | 81/11/13 | 0439:50 | 0440:25 | 155 | 79 | | | 2 | | |
| 4092 | 317 | 81/11/13 | 0455:00 | 0455:15 | 175 | 78 | | | 2 | | |
| 4093 | 317 | 81/11/13 | 0507:10 | 0507:30 | 40 | 96 | | | 2 | | |
| 4094 | 317 | 81/11/13 | 0509:00 | 0509:10 | 45 | 76 | | | 2 | | |
| 4095 | 317 | 81/11/13 | 0805:55 | 0807:25 | 649 | 274 | 32295 | | 5 | 137, 9 | |
| 4096 | 317 | 81/11/13 | 1102:10 | 1103:15 | 442 | 5042 | 2.84E+05 | | 7 | 137, 10 | M |
| 4097 | 317 | 81/11/13 | 1150:00 | 1150:24 | 45 | 100 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

96

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 4098 | 317 | 81/11/13 | 1921:10 | 1921:55 | 435 | 173 | 7317 | | 2 | 137, 11 | |
| 4099 | 317 | 81/11/13 | 2342:15 | 2344:00 | 281 | 437 | 10512 | | 5 | 137, 12 | M |
| 4101 | 318 | 81/11/14 | 0627:40 | 0628:00 | 40 | 73 | | | 2 | | |
| 4102 | 318 | 81/11/14 | 0752:40 | 0802:10 | 803 | 185 | | | 10 | 137, 14 | ND |
| 4103 | 318 | 81/11/14 | 0820:35 | 0821:05 | 51 | 278 | 2201 | | 4 | 137, 15 | |
| 4104 | 318 | 81/11/14 | 2154:45 | 2202:10 | 3381 | 1012 | 3.96E+05 | | 9 | 137, 16 | M |
| 4105 | 318 | 81/11/14 | 2331:25 | 2331:55 | 55 | 95 | | | 2 | | |
| 4106 | 319 | 81/11/15 | 0004:45 | 0005:15 | 60 | 97 | | | 2 | | |
| 4107 | 319 | 81/11/15 | 0134:40 | 0135:15 | 81 | 493 | 9259 | | 4 | 138, 1 | M |
| 4108 | 319 | 81/11/15 | 0303:15 | 0303:35 | 56 | 133 | 1253 | | 2 | 138, 3 | |
| 4109 | 319 | 81/11/15 | 0307:40 | 0308:35 | 279 | 130 | 4026 | | 2 | 138, 3 | |
| 4110 | 319 | 81/11/15 | 0426:45 | 0427:20 | 75 | 187 | 3184 | | 3 | 138, 4 | |
| 4111 | 319 | 81/11/15 | 1527:15 | 1527:55 | 112 | 117 | 1737 | | 2 | 138, 5 | |
| 4112 | 319 | 81/11/15 | 2348:30 | 2349:10 | 120 | 67 | | | 2 | | |
| 4113 | 320 | 81/11/16 | 1247:20 | 1250:15 | 515 | 176 | 17409 | | 2 | 138, 6 | |
| 4114 | 321 | 81/11/17 | 0426:40 | 0427:00 | 79 | 292 | 2936 | | 3 | 138, 7 | M |
| 4115 | 321 | 81/11/17 | 0732:50 | 0733:30 | 85 | 73 | | | 2 | | |
| 4116 | 321 | 81/11/17 | 1155:35 | 1155:35 | 88 | 200 | 3172 | | 4 | 138, 9 | ES |
| 4117 | 321 | 81/11/17 | 2150:25 | 2151:30 | 110 | 83 | | | 2 | | |
| 4118 | 321 | 81/11/17 | 2302:20 | 2302:40 | 100 | 68 | | | 2 | | |
| 4119 | 322 | 81/11/18 | 0109:40 | 0111:15 | 140 | 88 | | | 2 | | |
| 4120 | 322 | 81/11/18 | 0119:25 | 0123:05 | 502 | 162 | 13181 | | 2 | 138, 10 | |
| 4121 | 322 | 81/11/18 | 0304:00 | 0305:00 | 110 | 57 | | | 2 | | |
| 4122 | 322 | 81/11/18 | 0411:55 | 0414:30 | 477 | 1498 | 1.12E+05 | | 5 | 138, 11 | M |
| 4123 | 322 | 81/11/18 | 0602:15 | 0603:00 | 123 | 113 | 1125 | | 4 | 138, 13 | |
| 4124 | 322 | 81/11/18 | 0906:35 | 0908:10 | 173 | 142 | 3544 | | 2 | 138, 14 | |
| 4125 | 322 | 81/11/18 | 1411:45 | 1411:45 | 80 | 66 | | | 2 | | |
| 4126 | 323 | 81/11/19 | 0222:35 | 0228:15 | 1597 | 252 | 45187 | | 3 | 138, 15 | |
| 4127 | 323 | 81/11/19 | 1048:15 | 1048:55 | 114 | 152 | 2035 | | 2 | 138, 16 | |
| 4128 | 324 | 81/11/20 | 0025:55 | 0027:50 | 205 | 70 | | | 2 | | |
| 4129 | 324 | 81/11/20 | 0458:45 | 0510:05 | 957 | 290 | 56075 | | 13 | 139, 1 | |
| 4130 | 324 | 81/11/20 | 1802:10 | 1802:20 | 60 | 81 | | | 2 | | |
| 4131 | 325 | 81/11/21 | 1553:20 | 1556:20 | 305 | 213 | 663 | | 2 | 139, 2 | |
| 4132 | 325 | 81/11/21 | 2244:50 | 2248:55 | 155 | 85 | | | 2 | | |
| 4133 | 326 | 81/11/22 | 0322:00 | 0322:40 | 615 | 3700 | 87699 | | 8 | 139, 3 | M |
| 4134 | 326 | 81/11/22 | 0449:35 | 0449:40 | 115 | 101 | | | 2 | | SA |
| 4135 | 326 | 81/11/22 | 0655:35 | 0656:55 | 711 | 1899 | 2.20E+05 | | 7 | 139, 5 | M |
| 4731 | 326 | 81/11/22 | 1742:15 | 1743:45 | 98 | 101 | 471 | | 2 | 155, 2 | SA, I |
| 4136 | 326 | 81/11/22 | 2042:05 | 2042:40 | 50 | 64 | | | 2 | | |
| 4137 | 326 | 81/11/22 | 2223:15 | 2223:40 | 50 | 81 | | | 2 | | |
| 4138 | 326 | 81/11/22 | 2242:15 | 2242:35 | 70 | 64 | | | 2 | | |
| 4139 | 327 | 81/11/23 | 0444:20 | 0444:50 | 90 | 67 | | | 2 | | |
| 4140 | 327 | 81/11/23 | 0948:45 | 0949:05 | 100 | 77 | | | 2 | | |
| 4141 | 327 | 81/11/23 | 1308:30 | 1309:15 | 140 | 84 | | | 2 | | |
| 4142 | 327 | 81/11/23 | 1530:05 | 1530:35 | 90 | 68 | | | 2 | | |
| 4143 | 328 | 81/11/24 | 0111:15 | 0114:05 | 450 | 78 | 4492 | | 4 | 139, 6 | |
| 4144 | 328 | 81/11/24 | 0136:15 | 0136:40 | 70 | 72 | | | 2 | | |
| 4145 | 328 | 81/11/24 | 1429:10 | 1429:55 | 103 | 105 | 1137 | | 2 | 139, 7 | |
| 4146 | 328 | 81/11/24 | 1431:20 | 1431:50 | 69 | 141 | 1548 | | 2 | 139, 7 | |
| 4147 | 329 | 81/11/25 | 0302:40 | 0303:55 | 156 | 120 | 2071 | | 2 | 139, 8 | |
| 4148 | 329 | 81/11/25 | 0412:15 | 0412:15 | 194 | 163 | 4767 | | 9 | 139, 9 | SA, AX |
| 4149 | 329 | 81/11/25 | 0742:10 | 0745:30 | 615 | 115 | 8409 | | 2 | 139, 10 | |
| 4150 | 329 | 81/11/25 | 1252:10 | 1253:15 | 104 | 179 | 5588 | | 2 | 139, 11 | M |

ORIGINAL PAGE IS
OF POOR QUALITY

97

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4151 | 329 | 81/11/25 | 1815:25 | 1817:00 | 330 | 633 | 43279 | | 4 | 139, 12 | M |
| 4152 | 329 | 81/11/25 | 2045:10 | 2045:15 | 25 | 66 | | | 2 | | |
| 4153 | 329 | 81/11/25 | 2317:25 | 2319:30 | 535 | 132 | 8651 | | 2 | 139, 14 | |
| 4154 | 330 | 81/11/26 | 0212:50 | 0216:35 | 434 | 187 | 21369 | | 11 | 139, 15 | SA |
| 4155 | 330 | 81/11/26 | 1938:10 | 1943:05 | 875 | 96 | 7965 | | 2 | 139, 16 | |
| 4156 | 330 | 81/11/26 | 2324:40 | 2325:30 | 107 | 193 | 4177 | | 2 | 140, 1 | |
| 4157 | 331 | 81/11/27 | 2111:00 | 2112:40 | 273 | 103 | 6249 | | 4 | 140, 2 | |
| 4158 | 332 | 81/11/28 | 0729:15 | 0731:50 | 290 | 220 | | | 2 | 140, 3 | ND |
| 4159 | 333 | 81/11/29 | 0204:40 | 0206:45 | 459 | 75 | 4198 | | 2 | 140, 4 | |
| 4160 | 333 | 81/11/29 | 0659:05 | 0659:30 | 75 | 72 | | | 2 | | |
| 4161 | 333 | 81/11/29 | 1553:40 | 1626:00 | 3256 | 95 | 49447 | | 2 | 140, 5 | |
| 4162 | 333 | 81/11/29 | 1813:00 | 1814:05 | 92 | 223 | 2300 | | 2 | 140, 6 | |
| 4163 | 333 | 81/11/29 | 1927:45 | 1929:20 | 291 | 999 | 13442 | | 5 | 140, 7 | |
| 4164 | 334 | 81/11/30 | 0823:35 | 0824:00 | 70 | 94 | | | 2 | | |
| 4165 | 334 | 81/11/30 | 1136:35 | 1141:05 | 500 | 167 | 8950 | | 2 | 140, 8 | |
| 4166 | 334 | 81/11/30 | 1456:35 | 1457:10 | 184 | 1544 | 21682 | | 4 | 140, 9 | |
| 4167 | 335 | 81/12/01 | 0314:20 | 0314:40 | 105 | 69 | | | 2 | | |
| 4168 | 335 | 81/12/01 | 0826:55 | 0827:40 | 80 | 82 | | | 2 | | |
| 4169 | 335 | 81/12/01 | 1250:25 | 1251:00 | 65 | 72 | | | 2 | | |
| 4170 | 335 | 81/12/01 | 1416:35 | 1417:20 | 100 | 68 | | | 2 | | |
| 4171 | 335 | 81/12/01 | 1705:40 | 1708:55 | 527 | 609 | 37777 | | 7 | 140, 10 | M, SN |
| 4172 | 335 | 81/12/01 | 1858:20 | 1858:55 | 145 | 90 | | | 2 | | |
| 4173 | 336 | 81/12/02 | 0310:20 | 0310:45 | 125 | 88 | | | 2 | | |
| 4174 | 336 | 81/12/02 | 1357:05 | 1357:50 | 80 | 72 | | | 2 | | |
| 4175 | 336 | 81/12/02 | 1852:55 | 1855:10 | 205 | 70 | | | 2 | | |
| 4176 | 336 | 81/12/02 | 2030:40 | 2031:30 | 140 | 147 | 5106 | | 2 | 140, 12 | |
| 4177 | 337 | 81/12/03 | 1737:00 | 1737:25 | 72 | 110 | 960 | | 2 | 140, 13 | |
| 4178 | 337 | 81/12/03 | 1900:50 | 1901:00 | 20 | 91 | | | 2 | | |
| 4179 | 337 | 81/12/03 | 2007:10 | 2007:55 | 80 | 68 | | | 2 | | |
| 4180 | 337 | 81/12/03 | 2046:30 | 2047:15 | 120 | 70 | | | 2 | | |
| 4181 | 337 | 81/12/03 | 2207:05 | 2207:35 | 80 | 64 | | | 2 | | |
| 4182 | 338 | 81/12/04 | 0857:50 | 0858:10 | 60 | 76 | | | 2 | | |
| 4183 | 338 | 81/12/04 | 1500:50 | 1501:30 | 75 | 59 | | | 2 | | |
| 4184 | 338 | 81/12/04 | 1726:15 | 1727:55 | 224 | 515 | 1.10E+05 | | 3 | 140, 14 | ND |
| 4185 | 338 | 81/12/04 | 2102:00 | 2105:20 | 311 | 117 | 8862 | | 4 | 140, 15 | |
| 4186 | 339 | 81/12/05 | 0247:50 | 0248:40 | 75 | 78 | | | 2 | | |
| 4187 | 339 | 81/12/05 | 1034:00 | 1034:45 | 95 | 65 | | | 2 | | |
| 4188 | 340 | 81/12/06 | 1956:00 | 1957:30 | 191 | 84 | | | 2 | | |
| 4189 | 340 | 81/12/06 | 2253:40 | 2254:10 | 51 | 110 | 464 | | 2 | 140, 16 | |
| 4190 | 341 | 81/12/07 | 0044:35 | 0045:00 | 165 | 85 | | | 2 | | |
| 4191 | 341 | 81/12/07 | 0057:30 | 0058:25 | 214 | 279 | 5752 | | 4 | 141, 1 | |
| 4192 | 341 | 81/12/07 | 0334:30 | 0335:20 | 291 | 398 | 14691 | | 4 | 141, 2 | |
| 4193 | 341 | 81/12/07 | 0654:05 | 0654:25 | 47 | 162 | 1088 | | 2 | 141, 3 | |
| 4194 | 341 | 81/12/07 | 1331:05 | 1334:03 | 650 | 200 | 16748 | | 2 | 141, 4 | |
| 4195 | 341 | 81/12/07 | 1442:15 | 1451:05 | 750 | 3311 | 74095 | | 15 | 141, 5 | |
| 4196 | 342 | 81/12/08 | 0006:45 | 0007:10 | 60 | 69 | | | 2 | | |
| 4197 | 342 | 81/12/08 | 0033:15 | 0034:20 | 198 | 290 | 9866 | | 2 | 141, 6 | |
| 4198 | 342 | 81/12/08 | 0139:55 | 0143:25 | 481 | 322 | 16830 | | 4 | 141, 7 | |
| 4199 | 342 | 81/12/08 | 0311:40 | 0312:20 | 75 | 80 | | | 2 | | |
| 4200 | 342 | 81/12/08 | 0334:45 | 0336:00 | 120 | 90 | | | 2 | | |
| 4201 | 342 | 81/12/08 | 0645:00 | 0645:35 | 70 | 83 | | | 2 | | |
| 4202 | 342 | 81/12/08 | 1236:00 | 1236:50 | 119 | 796 | 17362 | | 5 | 141, 8 | |
| 4203 | 342 | 81/12/08 | 1420:45 | 1422:00 | 120 | 81 | | | 2 | | |

C-2

ORIGINAL PAGE IS
OF POOR QUALITY

98

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4204 | 342 | 81/12/08 | 1633:10 | 1634:20 | 110 | 99 | | | 2 | | |
| 4205 | 342 | 81/12/08 | 1753:15 | 1800:15 | 683 | 134 | 16064 | | 2 | 141, 9 | |
| 4206 | 342 | 81/12/08 | 1825:00 | 1826:40 | 160 | 67 | | | 2 | | |
| 4207 | 343 | 81/12/09 | 0132:00 | 0133:55 | 214 | 101 | 3487 | | 2 | 141, 10 | |
| 4208 | 343 | 81/12/09 | 0339:15 | 0343:30 | 1196 | 3156 | 4.30E+05 | | 4 | 141, 11 | EN |
| 4209 | 343 | 81/12/09 | 0504:15 | 0505:30 | 155 | 92 | | | 2 | | |
| 4210 | 343 | 81/12/09 | 0509:35 | 0512:00 | 218 | 118 | 3669 | | 2 | 141, 12 | |
| 4211 | 343 | 81/12/09 | 0636:40 | 0645:10 | 1522 | 825 | 1.30E+05 | | 2 | 141, 13 | M |
| 4212 | 343 | 81/12/09 | 1500:30 | 1503:10 | 197 | 75 | | | 2 | | |
| 4213 | 343 | 81/12/09 | 1625:20 | 1625:40 | 49 | 207 | 1291 | | 4 | 141, 14 | |
| 4214 | 343 | 81/12/09 | 1853:50 | 1905:30 | 2765 | 818 | 4.91E+05 | | 10 | 141, 15 | M, ES |
| 4215 | 343 | 81/12/09 | 2021:00 | 2022:30 | 1452 | 129 | 26578 | | 2 | 141, 16 | SN |
| 4216 | 343 | 81/12/09 | 2212:05 | 2212:20 | 87 | 458 | 4528 | | 4 | 142, 1 | M |
| 4217 | 343 | 81/12/09 | 2217:20 | 2217:35 | 106 | 153 | 1204 | | 2 | 142, 1 | |
| 4218 | 344 | 81/12/10 | 0154:55 | 0155:10 | 110 | 76 | | | 2 | | |
| 4219 | 344 | 81/12/10 | 1234:40 | 1234:55 | 40 | 77 | | | 2 | | |
| 4220 | 344 | 81/12/10 | 1236:25 | 1237:00 | 60 | 95 | | | 2 | | |
| 4221 | 344 | 81/12/10 | 1249:15 | 1249:25 | 35 | 98 | | | 2 | | |
| 4222 | 344 | 81/12/10 | 1250:45 | 1251:00 | 40 | 90 | | | 2 | | |
| 4223 | 344 | 81/12/10 | 1530:25 | 1531:20 | 175 | 336 | 11323 | | 4 | 142, 3 | |
| 4224 | 344 | 81/12/10 | 1538:15 | 1538:30 | 60 | 74 | | | 2 | | |
| 4225 | 344 | 81/12/10 | 1706:10 | 1706:30 | 75 | 82 | | | 2 | | |
| 4226 | 344 | 81/12/10 | 1710:15 | 1710:35 | 110 | 72 | | | 2 | | |
| 4227 | 344 | 81/12/10 | 2147:05 | 2148:40 | 348 | 285 | 12878 | | 2 | 142, 4 | M |
| 4228 | 345 | 81/12/11 | 0303:30 | 0304:15 | 96 | 598 | 7803 | | 5 | 142, 6 | M |
| 4229 | 345 | 81/12/11 | 0311:55 | 0312:40 | 110 | 94 | | | 2 | | |
| 4230 | 345 | 81/12/11 | 0439:05 | 0440:00 | 238 | 411 | 12695 | | 3 | 142, 8 | |
| 4231 | 345 | 81/12/11 | 0728:15 | 0728:55 | 140 | 75 | | | 2 | | |
| 4232 | 345 | 81/12/11 | 0741:40 | 0743:10 | 322 | 123 | 4155 | | 2 | 142, 9 | |
| 4233 | 345 | 81/12/11 | 2014:50 | 2015:40 | 150 | 212 | 4426 | | 2 | 142, 10 | |
| 4234 | 345 | 81/12/11 | 2151:20 | 2151:50 | 140 | 67 | | | 2 | | |
| 4235 | 345 | 81/12/11 | 2325:15 | 2326:45 | 180 | 74 | | | 2 | | |
| 4236 | 346 | 81/12/12 | 0318:45 | 0322:35 | 487 | 946 | 51799 | | 4 | 142, 11 | EN |
| 4237 | 346 | 81/12/12 | 0422:35 | 0423:00 | 180 | 183 | 4583 | | 2 | 142, 12 | |
| 4238 | 346 | 81/12/12 | 0740:55 | 0742:10 | 120 | 70 | | | 2 | | |
| 4239 | 346 | 81/12/12 | 1245:15 | 1245:25 | 48 | 262 | 1437 | | 3 | 142, 13 | |
| 4240 | 346 | 81/12/12 | 1651:30 | 1652:00 | 637 | 134 | 13353 | | 2 | 142, 14 | SG |
| 4241 | 347 | 81/12/13 | 1054:20 | 1057:15 | 505 | 375 | 20414 | | 2 | 142, 15 | |
| 4242 | 347 | 81/12/13 | 1339:30 | 1340:05 | 45 | 74 | | | 2 | | |
| 4243 | 347 | 81/12/13 | 2125:15 | 2127:30 | 622 | 582 | 26167 | | 4 | 142, 16 | M |
| 4244 | 348 | 81/12/14 | 0828:10 | 0829:00 | 70 | 79 | | | 2 | | |
| 4245 | 348 | 81/12/14 | 1202:55 | 1205:20 | 170 | 80 | | | 2 | | |
| 4246 | 348 | 81/12/14 | 1759:40 | 1800:55 | 130 | 72 | | | 2 | | |
| 4247 | 348 | 81/12/14 | 1802:25 | 1803:05 | 110 | 95 | | | 2 | | |
| 4248 | 348 | 81/12/14 | 1952:15 | 1952:40 | 80 | 73 | | | 2 | | |
| 4249 | 348 | 81/12/14 | 2142:30 | 2142:45 | 39 | 110 | 841 | | 2 | 143, 1 | |
| 4250 | 349 | 81/12/15 | 0045:55 | 0047:15 | 246 | 105 | 3493 | | 2 | 143, 2 | |
| 4251 | 349 | 81/12/15 | 0328:30 | 0328:40 | 25 | 69 | | | 2 | | |
| 4252 | 349 | 81/12/15 | 0817:30 | 0817:55 | 115 | 96 | | | 2 | | |
| 4253 | 349 | 81/12/15 | 1133:45 | 1135:50 | 281 | 119 | 5120 | | 2 | 143, 3 | |
| 4254 | 349 | 81/12/15 | 1625:35 | 1626:25 | 198 | 65 | | | 2 | | |
| 4255 | 349 | 81/12/15 | 1944:30 | 1946:30 | 765 | 1193 | 1.42E+05 | | 5 | 143, 4 | M, EN |
| 4256 | 350 | 81/12/16 | 1250:55 | 1251:50 | 160 | 71 | | | 3 | | |

ORIGINAL PAGE 19
OF POOR QUALITY

99

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4257 | 350 | 81/12/16 | 1429:50 | 1429:55 | 170 | 88 | | | 2 | | |
| 4258 | 350 | 81/12/16 | 1618:20 | 1619:30 | 269 | 179 | 18157 | | 2 | 143, 5 | EG |
| 4259 | 354 | 81/12/20 | 1429:05 | 1430:30 | 185 | 68 | | | 2 | | |
| 4260 | 355 | 81/12/21 | 1236:00 | 1237:00 | 185 | 68 | | | 2 | | |
| 4292 | 362 | 81/12/28 | 1826:25 | 1827:50 | 155 | 92 | | | 2 | | |
| 4293 | 364 | 81/12/30 | 0823:40 | 0824:15 | 70 | 61 | | | 2 | | |
| 4294 | 365 | 81/12/31 | 1755:35 | 1755:45 | 21 | 160 | 678 | | 3 | 144, 4 | |

HXRBS EVENT LISTING 83/04/15, 0036:06.360

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4295 | 1 | 82/01/01 | 0055:00 | 0057:05 | 199 | 2404 | 1.71E+05 | | 9 | 144, 5 | |
| 4296 | 2 | 82/01/02 | 2254:35 | 2255:15 | 70 | 61 | | | 2 | | |
| 4297 | 3 | 82/01/03 | 0639:45 | 0643:10 | 363 | 85 | 5254 | | 2 | 144, 6 | |
| 4298 | 7 | 82/01/07 | 0232:25 | 0232:45 | 190 | 72 | | | 2 | | |
| 4308 | 7 | 82/01/07 | 1211:30 | 1217:45 | 590 | 88 | 6065 | | 2 | 144, 10 | |
| 4309 | 7 | 82/01/07 | 1937:40 | 1938:55 | 263 | 421 | 19215 | | 4 | 144, 11 | |
| 4310 | 8 | 82/01/08 | 0020:05 | 0021:20 | 130 | 64 | | | 3 | | |
| 4311 | 8 | 82/01/08 | 0024:40 | 0025:15 | 125 | 56 | | | 2 | | |
| 4312 | 8 | 82/01/08 | 0156:45 | 0157:35 | 155 | 97 | | | 5 | | |
| 4313 | 8 | 82/01/08 | 0201:20 | 0202:40 | 384 | 2309 | 54235 | | 7 | 144, 12 | |
| 4314 | 8 | 82/01/08 | 0322:10 | 0327:45 | 627 | 81 | 6320 | | 5 | 144, 13 | AX |
| 4315 | 8 | 82/01/08 | 1301:00 | 1301:20 | 65 | 97 | | | 2 | | |
| 4316 | 8 | 82/01/08 | 2057:00 | 2058:25 | 175 | 82 | | | 4 | | |
| 4317 | 9 | 82/01/09 | 0224:40 | 0225:20 | 95 | 57 | | | 2 | | |
| 4318 | 9 | 82/01/09 | 0529:40 | 0531:55 | 190 | 63 | | | 2 | | |
| 4319 | 9 | 82/01/09 | 0700:15 | 0700:35 | 93 | 125 | 2124 | | 2 | 144, 14 | |
| 4320 | 9 | 82/01/09 | 1949:00 | 1949:25 | 64 | 136 | 1658 | | 2 | 144, 15 | |
| 4321 | 9 | 82/01/09 | 2039:45 | 2040:30 | 110 | 129 | 3435 | | 5 | 144, 16 | |
| 4322 | 9 | 82/01/09 | 2219:20 | 2221:05 | 175 | 82 | | | 3 | | |
| 4323 | 10 | 82/01/10 | 0831:00 | 0831:15 | 95 | 73 | | | 2 | | |
| 4324 | 10 | 82/01/10 | 1450:30 | 1450:40 | 35 | 68 | | | 2 | | |
| 4325 | 10 | 82/01/10 | 2028:20 | 2040:15 | 1022 | 209 | 24177 | | 5 | 145, 1 | |
| 4326 | 10 | 82/01/10 | 2356:05 | 2356:30 | 50 | 78 | | | 2 | | |
| 4327 | 11 | 82/01/11 | 0004:20 | 0004:45 | 185 | 192 | 5152 | | 2 | 145, 2 | |
| 4328 | 11 | 82/01/11 | 0207:10 | 0208:20 | 90 | 63 | | | 4 | | EN |
| 4329 | 11 | 82/01/11 | 0303:25 | 0303:45 | 60 | 56 | | | 2 | | |
| 4330 | 11 | 82/01/11 | 0305:30 | 0305:45 | 35 | 73 | | | 2 | | |
| 4331 | 11 | 82/01/11 | 0316:05 | 0316:30 | 135 | 64 | | | 2 | | |
| 4333 | 11 | 82/01/11 | 0639:35 | 0639:40 | 337 | 108 | 6860 | | 2 | 145, 3 | |
| 4334 | 12 | 82/01/12 | 0153:50 | 0155:45 | 197 | 69 | | | 4 | | AX |
| 4336 | 12 | 82/01/12 | 2138:25 | 2145:30 | 579 | 135 | 21350 | | 7 | 145, 5 | AX |
| 4337 | 12 | 82/01/12 | 2219:25 | 2219:50 | 30 | 84 | | | 2 | | |
| 4338 | 12 | 82/01/12 | 2220:25 | 2223:05 | 375 | 84 | 4519 | | 5 | 145, 6 | AX |
| 4339 | 13 | 82/01/13 | 2121:00 | 2125:20 | 762 | 201 | 53212 | | 7 | 145, 7 | |
| 4340 | 13 | 82/01/13 | 2208:05 | 2209:45 | 195 | 71 | | | 5 | | |
| 4341 | 14 | 82/01/14 | 2154:30 | 2155:20 | 125 | 69 | | | 3 | | AX |
| 4342 | 14 | 82/01/14 | 2332:20 | 2333:25 | 145 | 61 | | | 3 | | AX |
| 4343 | 15 | 82/01/15 | 0026:20 | 0029:05 | 309 | 87 | 3527 | | 4 | 145, 8 | AX |
| 4344 | 15 | 82/01/15 | 0112:10 | 0113:45 | 145 | 69 | | | 5 | | AX |
| 4345 | 15 | 82/01/15 | 1211:35 | 1211:55 | 30 | 60 | | | 2 | | |
| 4346 | 15 | 82/01/15 | 1214:55 | 1215:00 | 20 | 57 | | | 2 | | |
| 4347 | 15 | 82/01/15 | 2056:50 | 2059:00 | 543 | 153 | 18695 | | 5 | 145, 9 | AX |
| 4348 | 16 | 82/01/16 | 2123:25 | 2124:15 | 80 | 65 | | | 2 | | |
| 4349 | 17 | 82/01/17 | 2028:55 | 2032:10 | 652 | 114 | 14648 | | 5 | 145, 10 | AX |
| 4350 | 17 | 82/01/17 | 2203:15 | 2204:25 | 165 | 71 | | | 2 | | AX |
| 4351 | 17 | 82/01/17 | 2253:20 | 2255:05 | 185 | 72 | | | 2 | | AX |
| 4352 | 17 | 82/01/17 | 2341:55 | 2343:35 | 384 | 146 | 11663 | | 7 | 145, 11 | AX |
| 4353 | 18 | 82/01/18 | 1432:50 | 1434:45 | 319 | 99 | 4760 | | 2 | 145, 12 | |
| 4354 | 18 | 82/01/18 | 2238:35 | 2239:10 | 170 | 85 | | | 4 | | AX |
| 4355 | 19 | 82/01/19 | 0927:50 | 0929:20 | 168 | 119 | 2080 | | 2 | 145, 13 | |
| 4356 | 19 | 82/01/19 | 1405:10 | 1406:05 | 120 | 62 | | | 2 | | |

PRECEDING PAGE BLANK NOT FILMED

ORIGINAL PAGE 19
OF POOR QUALITY

102

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4357 | 19 | 82/01/19 | 1410:45 | 1411:15 | 108 | 128 | 835 | | 2 | 145, 14 | |
| 4358 | 19 | 82/01/19 | 1420:35 | 1421:50 | 120 | 69 | | | 2 | | |
| 4359 | 19 | 82/01/19 | 1524:55 | 1525:55 | 197 | 1335 | | | 3 | | |
| 4360 | 19 | 82/01/19 | 1829:35 | 1830:15 | 95 | 65 | | | 2 | | |
| 4361 | 19 | 82/01/19 | 2004:40 | 2006:50 | 180 | 57 | | | 2 | | |
| 4362 | 19 | 82/01/19 | 2034:10 | 2035:30 | 170 | 79 | | | 2 | | |
| 4363 | 19 | 82/01/19 | 2154:40 | 2155:35 | 252 | 84 | 3966 | | 2 | 145, 15 | |
| 4365 | 20 | 82/01/20 | 1049:10 | 1050:05 | 187 | 75 | | | 2 | | |
| 4366 | 20 | 82/01/20 | 2210:00 | 2212:55 | 541 | 71 | 12874 | | 4 | 146, 1 | |
| 4367 | 21 | 82/01/21 | 0548:50 | 0549:10 | 60 | 105 | 578 | | 2 | 146, 2 | |
| 4368 | 22 | 82/01/22 | 1457:35 | 1457:55 | 135 | 80 | | | 2 | | |
| 4369 | 22 | 82/01/22 | 1710:30 | 1711:25 | 130 | 93 | | | 2 | | |
| 4370 | 23 | 82/01/23 | 2305:40 | 2306:10 | 75 | 58 | | | 2 | | |
| 4371 | 24 | 82/01/24 | 0152:35 | 0155:35 | 696 | 935 | 1.37E+05 | | 4 | 146, 3 | |
| 4372 | 24 | 82/01/24 | 1015:30 | 1015:55 | 60 | 83 | | | 2 | | |
| 4373 | 24 | 82/01/24 | 1449:40 | 1450:30 | 110 | 84 | | | 2 | | |
| 4374 | 24 | 82/01/24 | 1453:20 | 1453:40 | 55 | 59 | | | 2 | | |
| 4375 | 24 | 82/01/24 | 1454:40 | 1456:15 | 145 | 66 | | | 2 | | |
| 4376 | 24 | 82/01/24 | 1936:20 | 1944:45 | 1188 | 984 | 3.31E+05 | | 5 | 146, 4 | M |
| 4378 | 25 | 82/01/25 | 1553:15 | 1554:00 | 165 | 57 | | | 2 | | |
| 4379 | 25 | 82/01/25 | 1756:30 | 1756:32 | 40 | 75 | | | 2 | | |
| 4380 | 25 | 82/01/25 | 1918:35 | 1919:35 | 160 | 99 | | | 2 | | |
| 4381 | 26 | 82/01/26 | 0210:45 | 0212:20 | 160 | 69 | | | 2 | | |
| 4382 | 26 | 82/01/26 | 0323:40 | 0323:55 | 71 | 60 | | | 2 | | |
| 4383 | 26 | 82/01/26 | 0343:05 | 0343:15 | 45 | 104 | 217 | | 5 | 146, 5 | |
| 4384 | 26 | 82/01/26 | 0428:15 | 0428:25 | 40 | 96 | | | 2 | | |
| 4385 | 26 | 82/01/26 | 0615:40 | 0615:55 | 44 | 119 | 692 | | 4 | 146, 6 | |
| 4392 | 26 | 82/01/26 | 1731:30 | 1732:10 | 80 | 96 | | | 2 | | |
| 4393 | 26 | 82/01/26 | 2045:20 | 2045:30 | 25 | 80 | | | 2 | | |
| 4394 | 26 | 82/01/26 | 2344:20 | 2344:35 | 85 | 66 | | | 2 | | |
| 4854 | 27 | 82/01/27 | 0328:55 | 0329:10 | 35 | 65 | | | 2 | | |
| 4395 | 27 | 82/01/27 | 0611:25 | 0611:40 | 30 | 80 | | | 2 | | |
| 4396 | 27 | 82/01/27 | 0639:20 | 0640:25 | 110 | 61 | | | 2 | | |
| 4398 | 27 | 82/01/27 | 1410:20 | 1411:25 | 195 | 121 | 3669 | | 2 | 146, 8 | |
| 4399 | 27 | 82/01/27 | 1743:30 | 1743:55 | 114 | 136 | 1448 | | 2 | 146, 9 | |
| 4400 | 27 | 82/01/27 | 1830:50 | 1831:05 | 40 | 51 | | | 2 | | |
| 4401 | 27 | 82/01/27 | 2206:30 | 2207:15 | 160 | 81 | | | 2 | | |
| 4402 | 27 | 82/01/27 | 2209:25 | 2209:55 | 175 | 83 | | | 2 | | |
| 4409 | 28 | 82/01/28 | 0325:55 | 0326:40 | 135 | 79 | | | 2 | | |
| 4405 | 28 | 82/01/28 | 0548:00 | 0548:30 | 60 | 64 | | | 2 | | |
| 4403 | 28 | 82/01/28 | 0713:20 | 0722:00 | 1498 | 9763 | 1.02E+04 | | 15 | 146, 10 | M, SA |
| 4404 | 28 | 82/01/28 | 0748:25 | 0749:05 | 160 | 82 | | | 2 | | |
| 4406 | 28 | 82/01/28 | 0938:05 | 0939:05 | 246 | 134 | 5448 | | 2 | 146, 11 | |
| 4407 | 28 | 82/01/28 | 1052:45 | 1052:55 | 75 | 53 | | | 2 | | |
| 4408 | 28 | 82/01/28 | 1112:40 | 1113:45 | 161 | 164 | 4478 | | 2 | 146, 12 | |
| 4410 | 28 | 82/01/28 | 1850:50 | 1851:25 | 55 | 83 | | | 2 | | |
| 4411 | 29 | 82/01/29 | 0220:55 | 0222:50 | 218 | 126 | 4786 | | 2 | 146, 13 | |
| 4412 | 29 | 82/01/29 | 0228:10 | 0228:30 | 25 | 67 | | | 2 | | |
| 4413 | 29 | 82/01/29 | 0234:15 | 0235:35 | 743 | 142 | 11550 | | 2 | 146, 13 | |
| 4414 | 29 | 82/01/29 | 0312:40 | 0313:50 | 127 | 228 | 3760 | | 3 | 146, 14 | M |
| 4415 | 29 | 82/01/29 | 0354:25 | 0355:25 | 127 | 76 | | | 2 | | |
| 4416 | 29 | 82/01/29 | 0357:40 | 0358:15 | 55 | 76 | | | 2 | | |
| 4420 | 29 | 82/01/29 | 0357:50 | 0358:10 | 40 | 70 | | | 2 | | |

ORIGINAL PAGE 19
OF POOR QUALITY.

103

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|----------|
| 4417 | 29 | 82/01/29 | 0427:10 | 0427:25 | 30 | 80 | | | 2 | | |
| 4421 | 29 | 82/01/29 | 1025:05 | 1026:05 | 300 | 75 | 5167 | | 2 | 147, 1 | |
| 4422 | 29 | 82/01/29 | 1040:10 | 1048:20 | 660 | 153 | 2834 | | 2 | 147, 1 | |
| 4423 | 29 | 82/01/29 | 1543:35 | 1544:35 | 621 | 94 | 11782 | | 3 | 147, 2 | |
| 4424 | 29 | 82/01/29 | 2124:45 | 2125:15 | 115 | 93 | | | 2 | | |
| 4425 | 30 | 82/01/30 | 0247:10 | 0248:50 | 200 | 75 | | | 2 | | DG |
| 4426 | 30 | 82/01/30 | 0853:50 | 0854:00 | 25 | 75 | | | 2 | | SG |
| 4427 | 30 | 82/01/30 | 0959:25 | 0959:40 | 20 | 54 | | | 2 | | |
| 4428 | 30 | 82/01/30 | 1001:45 | 1002:20 | 65 | 59 | | | 2 | | |
| 4429 | 30 | 82/01/30 | 1036:45 | 1037:20 | 60 | 66 | | | 2 | | |
| 4430 | 30 | 82/01/30 | 1204:50 | 1214:35 | 1784 | 1006 | 1.21E+05 | | 7 | 147, 3 | |
| 4431 | 30 | 82/01/30 | 1354:40 | 1354:50 | 30 | 64 | | | 2 | | |
| 4432 | 30 | 82/01/30 | 2125:00 | 2126:10 | 190 | 57 | | | 2 | | |
| 4433 | 31 | 82/01/31 | 0014:20 | 0014:55 | 902 | 108 | 11986 | | 4 | 147, 4 | SN |
| 4434 | 31 | 82/01/31 | 0706:00 | 0706:25 | 73 | 375 | 5351 | | 3 | 147, 5 | |
| 4435 | 31 | 82/01/31 | 1123:30 | 1124:05 | 75 | 54 | | | 2 | | |
| 4436 | 31 | 82/01/31 | 1315:35 | 1330:35 | 2232 | 1819 | 3.26E+05 | | 10 | 147, 6 | |
| 4437 | 31 | 82/01/31 | 1441:35 | 1444:05 | 462 | 74 | 4648 | | 4 | 147, 7 | |
| 4438 | 31 | 82/01/31 | 1745:45 | 1747:35 | 193 | 96 | | | 2 | | |
| 4439 | 32 | 82/02/01 | 0030:35 | 0032:10 | 772 | 1428 | 68753 | | 7 | 147, 8 | M |
| 4440 | 32 | 82/02/01 | 0338:20 | 0339:10 | 130 | 99 | | | 2 | | |
| 4441 | 32 | 82/02/01 | 0458:00 | 0458:30 | 150 | 61 | | | 2 | | |
| 4442 | 32 | 82/02/01 | 0519:15 | 0519:20 | 337 | 158 | 5060 | | 4 | 147, 9 | |
| 4443 | 32 | 82/02/01 | 0717:45 | 0718:05 | 55 | 63 | | | 2 | | |
| 4444 | 32 | 82/02/01 | 0833:00 | 0834:00 | 150 | 834 | | | 2 | | |
| 4445 | 32 | 82/02/01 | 1249:40 | 1250:20 | 45 | 58 | | | 2 | | |
| 4446 | 32 | 82/02/01 | 1251:30 | 1252:40 | 180 | 89 | | | 4 | | |
| 4447 | 32 | 82/02/01 | 1418:45 | 1419:10 | 1462 | 419 | 64212 | | 5 | 147, 10 | SN |
| 4448 | 32 | 82/02/01 | 1451:20 | 1451:40 | 65 | 73 | | | 2 | 147, 10 | |
| 4449 | 32 | 82/02/01 | 1904:35 | 1914:15 | 1506 | 92 | 19720 | | 4 | 147, 11 | |
| 4450 | 32 | 82/02/01 | 1935:15 | 1936:05 | 285 | 140 | 4800 | | 2 | 147, 11 | |
| 4451 | 32 | 82/02/01 | 2058:05 | 2059:30 | 199 | 96 | | | 2 | | |
| 4452 | 32 | 82/02/01 | 2246:05 | 2248:00 | 200 | 70 | | | 2 | | |
| 4473 | 33 | 82/02/02 | 0012:00 | 0012:55 | 120 | 92 | | | 2 | | |
| 4453 | 33 | 82/02/02 | 0027:25 | 0028:40 | 155 | 76 | | | 2 | | |
| 4454 | 33 | 82/02/02 | 0326:15 | 0327:15 | 65 | 67 | | | 2 | | |
| 4455 | 33 | 82/02/02 | 0929:35 | 0930:20 | 160 | 61 | | | 2 | | |
| 4456 | 33 | 82/02/02 | 1015:10 | 1015:45 | 170 | 63 | | | 2 | | |
| 4457 | 33 | 82/02/02 | 1147:05 | 1149:10 | 185 | 58 | | | 2 | | |
| 4458 | 33 | 82/02/02 | 1150:10 | 1151:55 | 140 | 72 | | | 2 | | |
| 4459 | 33 | 82/02/02 | 1233:15 | 1234:00 | 95 | 55 | | | 2 | | |
| 4460 | 33 | 82/02/02 | 1236:00 | 1237:40 | 190 | 64 | | | 2 | | |
| 4461 | 33 | 82/02/02 | 1249:55 | 1250:50 | 125 | 68 | | | 2 | | |
| 4462 | 33 | 82/02/02 | 1406:20 | 1414:45 | 3335 | 175 | | | 15 | 147, 12 | SN,ND |
| 4463 | 33 | 82/02/02 | 1502:25 | 1505:10 | 320 | 175 | | | 5 | 147, 12 | EN,AX,ND |
| 4464 | 33 | 82/02/02 | 1547:40 | 1548:00 | 792 | 540 | 31833 | | 5 | 147, 13 | M |
| 4465 | 33 | 82/02/02 | 1639:45 | 1642:25 | 304 | 183 | 11352 | | 5 | 147, 14 | M,SA |
| 4466 | 33 | 82/02/02 | 1851:55 | 1852:15 | 725 | 365 | 24868 | | 3 | 147, 15 | SN |
| 4467 | 33 | 82/02/02 | 1920:10 | 1920:30 | 45 | 54 | | | 2 | | |
| 4468 | 33 | 82/02/02 | 2027:10 | 2028:45 | 197 | 74 | | | 2 | | |
| 4469 | 33 | 82/02/02 | 2041:10 | 2041:45 | 213 | 100 | 4300 | | 2 | 147, 16 | |
| 4470 | 33 | 82/02/02 | 2219:05 | 2219:55 | 173 | 176 | 3794 | | 2 | 148, 1 | |
| 4471 | 33 | 82/02/02 | 2350:15 | 2351:30 | 145 | 83 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

104

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 4472 | 33 | 82/02/02 | 2353:05 | 2354:50 | 195 | 74 | | | 2 | | |
| 4474 | 34 | 82/02/03 | 0112:26 | 0114:45 | 2236 | 4864 | 1.86E+06 | | 15 | 148, 2 | M, SN |
| 4475 | 34 | 82/02/03 | 0314:25 | 0315:30 | 512 | 1756 | 1.17E+05 | | 5 | 148, 3 | |
| 4476 | 34 | 82/02/03 | 0426:00 | 0427:10 | 150 | 84 | | | 2 | | SG, EG |
| 4477 | 34 | 82/02/03 | 0621:25 | 0622:05 | 75 | 61 | | | 2 | | |
| 4478 | 34 | 82/02/03 | 0626:30 | 0631:20 | 444 | 108 | 6093 | | 2 | 148, 4 | |
| 4479 | 34 | 82/02/03 | 0814:00 | 0816:15 | 1179 | 105 | 6805 | | 2 | 148, 5 | |
| 4480 | 34 | 82/02/03 | 0908:20 | 0910:00 | 402 | 174 | 16705 | | 2 | 148, 6 | SN |
| 4481 | 34 | 82/02/03 | 0929:35 | 0934:25 | 529 | 212 | 13962 | | 3 | 148, 6 | M |
| 4482 | 34 | 82/02/03 | 1006:05 | 1006:35 | 100 | 73 | | | 2 | | |
| 4483 | 34 | 82/02/03 | 1046:50 | 1047:10 | 180 | 68 | | | 2 | | |
| 4484 | 34 | 82/02/03 | 1315:30 | 1318:10 | 201 | 784 | 28791 | | 3 | 148, 8 | |
| 4485 | 34 | 82/02/03 | 1418:25 | 1418:45 | 195 | 73 | | | 2 | | |
| 4486 | 34 | 82/02/03 | 1422:45 | 1424:35 | 150 | 55 | | | 2 | | |
| 4487 | 34 | 82/02/03 | 1425:25 | 1426:15 | 120 | 55 | | | 2 | | |
| 4488 | 34 | 82/02/03 | 1704:00 | 1704:25 | 186 | 90 | | | 2 | | SN |
| 4489 | 34 | 82/02/03 | 1851:50 | 1852:00 | 48 | 489 | 3690 | | 3 | 148, 9 | M |
| 4490 | 34 | 82/02/03 | 2020:55 | 2023:10 | 791 | 1610 | 3.11E+05 | | 6 | 148, 11 | M |
| 4491 | 34 | 82/02/03 | 2041:35 | 2042:20 | 509 | 494 | 30614 | | 5 | 148, 11 | |
| 4492 | 34 | 82/02/03 | 2326:20 | 2327:40 | 197 | 73 | | | 2 | | |
| 4493 | 35 | 82/02/04 | 0108:45 | 0109:45 | 80 | 76 | | | 2 | | |
| 4494 | 35 | 82/02/04 | 0602:55 | 0610:05 | 652 | 70 | 13687 | | 2 | 148, 12 | |
| 4495 | 35 | 82/02/04 | 0634:10 | 0636:40 | 160 | 63 | | | 2 | | |
| 4496 | 35 | 82/02/04 | 0740:00 | 0740:40 | 60 | 53 | | | 2 | | |
| 4497 | 35 | 82/02/04 | 0753:40 | 0754:40 | 155 | 68 | | | 2 | | |
| 4498 | 35 | 82/02/04 | 0757:25 | 0757:55 | 40 | 52 | | | 2 | | |
| 4499 | 35 | 82/02/04 | 0759:50 | 0800:30 | 191 | 72 | | | 2 | | |
| 4500 | 35 | 82/02/04 | 0924:00 | 0924:45 | 60 | 66 | | | 2 | | |
| 4501 | 35 | 82/02/04 | 0932:40 | 0933:00 | 113 | 173 | 2167 | | 2 | 148, 13 | |
| 4502 | 35 | 82/02/04 | 1030:40 | 1031:00 | 52 | 117 | 770 | | 4 | 148, 14 | |
| 4503 | 35 | 82/02/04 | 1236:15 | 1237:30 | 105 | 93 | | | 2 | | |
| 4504 | 35 | 82/02/04 | 1254:35 | 1255:25 | 185 | 71 | | | 2 | | |
| 4505 | 35 | 82/02/04 | 1300:00 | 1300:35 | 70 | 90 | | | 2 | | |
| 4506 | 35 | 82/02/04 | 1341:05 | 1341:20 | 640 | 223 | 22510 | | 2 | 148, 15 | SN, DG |
| 4507 | 35 | 82/02/04 | 1355:45 | 1356:40 | 80 | 57 | | | 2 | | |
| 4508 | 35 | 82/02/04 | 1359:55 | 1402:35 | 198 | 56 | | | 2 | | |
| 4509 | 35 | 82/02/04 | 1408:35 | 1408:55 | 65 | 58 | | | 2 | | |
| 4510 | 35 | 82/02/04 | 1410:55 | 1411:45 | 85 | 81 | | | 2 | | |
| 4511 | 35 | 82/02/04 | 1523:30 | 1524:25 | 170 | 62 | | | 2 | | |
| 4512 | 35 | 82/02/04 | 1538:55 | 1541:45 | 309 | 806 | 41151 | | 9 | 149, 1 | EM, ES |
| 4513 | 35 | 82/02/04 | 1655:30 | 1656:20 | 75 | 88 | | | 2 | | |
| 4514 | 35 | 82/02/04 | 1658:40 | 1659:30 | 76 | 104 | 670 | | 2 | 149, 2 | |
| 4515 | 35 | 82/02/04 | 1715:25 | 1716:20 | 96 | 122 | 2530 | | 2 | 149, 3 | M |
| 4516 | 35 | 82/02/04 | 1717:20 | 1718:55 | 171 | 135 | 3595 | | 2 | 149, 3 | M |
| 4517 | 35 | 82/02/04 | 1845:35 | 1846:15 | 75 | 66 | | | 2 | | |
| 4518 | 35 | 82/02/04 | 1848:15 | 1848:40 | 60 | 56 | | | 2 | | |
| 4519 | 35 | 82/02/04 | 1850:40 | 1852:40 | 170 | 72 | | | 2 | | |
| 4520 | 35 | 82/02/04 | 1856:05 | 1857:20 | 204 | 546 | 44718 | | 5 | 149, 4 | ES |
| 4521 | 35 | 82/02/04 | 2143:00 | 2143:10 | 40 | 120 | 602 | | 2 | 149, 5 | |
| 4522 | 35 | 82/02/04 | 2330:05 | 2330:40 | 160 | 64 | | | 2 | | |
| 4523 | 35 | 82/02/04 | 2337:25 | 2338:15 | 205 | 73 | | | 2 | | |
| 4524 | 36 | 82/02/05 | 0109:35 | 0110:30 | 68 | 1617 | 10193 | | 6 | 149, 6 | |
| 4527 | 36 | 82/02/05 | 0128:00 | 0129:05 | 180 | 151 | 5182 | | 2 | 149, 8 | |

ORIGINAL PAGE IS
OF POOR QUALITY

105

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4525 | 36 | 82/02/05 | 0248:05 | 0248:35 | 55 | 71 | | | 4 | | |
| 4526 | 36 | 82/02/05 | 0306:50 | 0315:00 | 924 | 230 | 14975 | | 2 | 149, 7 | |
| 4528 | 36 | 82/02/05 | 0415:35 | 0415:55 | 45 | 77 | | | 2 | | |
| 4529 | 36 | 82/02/05 | 0558:30 | 0559:05 | 110 | 55 | | | 2 | | |
| 4530 | 36 | 82/02/05 | 0608:15 | 0608:35 | 185 | 171 | 2291 | | 2 | 149, 9 | |
| 4531 | 36 | 82/02/05 | 0731:30 | 0733:20 | 195 | 139 | 3011 | | 2 | 149, 10 | |
| 4532 | 36 | 82/02/05 | 0751:10 | 0751:45 | 80 | 87 | | | 2 | | |
| 4533 | 36 | 82/02/05 | 0753:05 | 0758:35 | 650 | 90 | 6688 | | 2 | 149, 10 | |
| 4534 | 36 | 82/02/05 | 0903:45 | 0906:05 | 1479 | 7230 | 6.74E+05 | | 14 | 149, 11 | M |
| 4535 | 36 | 82/02/05 | 1045:35 | 1046:35 | 164 | 125 | 2625 | | 3 | 149, 12 | |
| 4536 | 36 | 82/02/05 | 1052:05 | 1053:35 | 130 | 76 | | | 2 | | |
| 4537 | 36 | 82/02/05 | 1056:40 | 1057:45 | 160 | 57 | | | 2 | | |
| 4538 | 36 | 82/02/05 | 1153:00 | 1154:05 | 339 | 218 | 8059 | | 2 | 149, 13 | |
| 4539 | 36 | 82/02/05 | 1331:25 | 1331:40 | 30 | 54 | | | 2 | | |
| 4540 | 36 | 82/02/05 | 1334:35 | 1335:05 | 100 | 64 | | | 2 | | |
| 4541 | 36 | 82/02/05 | 1338:00 | 1339:40 | 170 | 86 | | | 2 | | |
| 4542 | 36 | 82/02/05 | 1510:10 | 1510:40 | 70 | 69 | | | 2 | | |
| 4543 | 36 | 82/02/05 | 1527:00 | 1528:15 | 155 | 75 | | | 2 | | |
| 4544 | 36 | 82/02/05 | 2147:30 | 2147:55 | 55 | 89 | | | 2 | | |
| 4545 | 37 | 82/02/06 | 0107:40 | 0107:55 | 69 | 30 | | | 2 | | |
| 4546 | 37 | 82/02/06 | 0258:40 | 0259:05 | 124 | 135 | 5938 | | 2 | 149, 14 | |
| 4547 | 37 | 82/02/06 | 0302:00 | 0302:15 | 40 | 90 | | | 2 | 129, 14 | |
| 4548 | 37 | 82/02/06 | 0355:35 | 0356:00 | 49 | 124 | 1195 | | 2 | 149, 15 | |
| 4549 | 37 | 82/02/06 | 0359:00 | 0359:25 | 44 | 178 | 1112 | | 2 | 149, 15 | |
| 4550 | 37 | 82/02/06 | 0425:00 | 0425:55 | 222 | 228 | 5334 | | 3 | 149, 16 | |
| 4551 | 37 | 82/02/06 | 0432:20 | 0432:50 | 90 | 61 | | | 2 | | |
| 4552 | 37 | 82/02/06 | 0520:45 | 0521:00 | 110 | 92 | | | 3 | | |
| 4553 | 37 | 82/02/06 | 0559:05 | 0601:25 | 538 | 122 | 11438 | | 2 | 150, 1 | |
| 4554 | 37 | 82/02/06 | 0608:45 | 0610:45 | 365 | 186 | 7431 | | 3 | 150, 1 | |
| 4555 | 37 | 82/02/06 | 0748:00 | 0751:25 | 258 | 78 | 1553 | | 2 | 150, 2 | |
| 4556 | 37 | 82/02/06 | 0902:50 | 0903:05 | 40 | 58 | | | 2 | | |
| 4557 | 37 | 82/02/06 | 1009:05 | 1009:45 | 110 | 54 | | | 2 | | |
| 4558 | 37 | 82/02/06 | 1145:05 | 1145:15 | 18 | 120 | 360 | | 3 | 150, 3 | |
| 4559 | 37 | 82/02/06 | 1223:50 | 1224:40 | 369 | 1143 | 42964 | | 5 | 150, 4 | M |
| 4560 | 37 | 82/02/06 | 1331:15 | 1334:10 | 416 | 1606 | 56368 | | 6 | 150, 5 | |
| 4561 | 37 | 82/02/06 | 1640:20 | 1640:45 | 66 | 298 | 3650 | | 4 | 150, 6 | M |
| 4562 | 37 | 82/02/06 | 1817:25 | 1818:20 | 108 | 236 | 5682 | | 2 | 150, 8 | EG |
| 4563 | 37 | 82/02/06 | 1948:15 | 1948:35 | 47 | 406 | 3388 | | 3 | 150, 9 | M |
| 4564 | 37 | 82/02/06 | 1959:20 | 1959:25 | 35 | 91 | | | 2 | 150, 9 | |
| 4565 | 37 | 82/02/06 | 2004:15 | 2006:25 | 159 | 201 | 1784 | | 3 | 150, 9 | |
| 4641 | 37 | 82/02/06 | 2110:50 | 2114:45 | 789 | 91 | 9060 | | 2 | 152, 12 | SN |
| 4566 | 37 | 82/02/06 | 2130:20 | 2130:50 | 45 | 90 | | | 2 | | |
| 4567 | 37 | 82/02/06 | 2139:45 | 2141:05 | 155 | 65 | | | 2 | | |
| 4568 | 38 | 82/02/07 | 0030:35 | 0034:00 | 647 | 133 | 3980 | | 2 | 150, 10 | |
| 4569 | 38 | 82/02/07 | 0043:05 | 0043:50 | 75 | 60 | | | 2 | | |
| 4570 | 38 | 82/02/07 | 0103:25 | 0103:45 | 55 | 82 | | | 3 | | |
| 4571 | 38 | 82/02/07 | 0222:05 | 0222:35 | 270 | 77 | 1467 | | 2 | 150, 11 | |
| 4572 | 38 | 82/02/07 | 0534:35 | 0535:20 | 110 | 53 | | | 2 | | |
| 4573 | 38 | 82/02/07 | 0544:15 | 0544:50 | 58 | 122 | 614 | | 2 | 150, 12 | |
| 4574 | 38 | 82/02/07 | 0643:35 | 0644:30 | 195 | 58 | | | 4 | | |
| 4575 | 38 | 82/02/07 | 0650:55 | 0652:05 | 130 | 56 | | | 2 | | |
| 4576 | 38 | 82/02/07 | 0825:30 | 0826:35 | 70 | 73 | | | 2 | | |
| 4577 | 38 | 82/02/07 | 1036:50 | 1037:20 | 52 | 374 | 1984 | | 2 | 150, 13 | |

ORIGINAL PAGE IS
OF POOR QUALITY

106

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| 4578 | 38 | 82/02/07 | 1041:55 | 1043:30 | 140 | 89 | | | 2 | | |
| 4579 | 38 | 82/02/07 | 1136:45 | 1137:05 | 51 | 623 | 5537 | | 6 | 150, 14 | |
| 4580 | 38 | 82/02/07 | 1812:45 | 1815:50 | 265 | 175 | 6395 | | 2 | 150, 15 | ES |
| 4581 | 38 | 82/02/07 | 2057:50 | 2058:15 | 696 | 2057 | 1.13E+05 | | 10 | 150, 16 | SN |
| 4582 | 39 | 82/02/08 | 0011:05 | 0011:20 | 45 | 90 | | | 2 | | |
| 4583 | 39 | 82/02/08 | 0029:55 | 0030:55 | 230 | 112 | 3687 | | 2 | 151, 1 | |
| 4584 | 39 | 82/02/08 | 0144:50 | 0148:50 | 638 | 562 | 42358 | | 3 | 151, 2 | M |
| 4585 | 39 | 82/02/08 | 0228:15 | 0228:35 | 140 | 85 | | | 2 | | |
| 4586 | 39 | 82/02/08 | 0241:15 | 0241:40 | 55 | 1193 | 28495 | | 5 | 151, 3 | |
| 4587 | 39 | 82/02/08 | 0524:05 | 0525:30 | 125 | 66 | | | 2 | | |
| 4588 | 39 | 82/02/08 | 0647:55 | 0652:20 | 660 | 326 | 18474 | | 4 | 151, 4 | |
| 4589 | 39 | 82/02/08 | 0701:35 | 0701:55 | 25 | 79 | | | 2 | | |
| 4590 | 39 | 82/02/08 | 0710:45 | 0711:15 | 45 | 166 | 2290 | | 3 | 151, 4 | |
| 4591 | 39 | 82/02/08 | 0712:45 | 0714:10 | 189 | 275 | 7321 | | 3 | 151, 4 | |
| 4592 | 39 | 82/02/08 | 1249:55 | 1250:00 | 1224 | 31095 | 1.96E+06 | | 15 | 151, 5 | M, SN, SG |
| 4593 | 39 | 82/02/08 | 1520:25 | 1520:50 | 40 | 50 | | | 2 | | |
| 4594 | 39 | 82/02/08 | 1605:00 | 1606:40 | 198 | 66 | | | 2 | | |
| 4595 | 39 | 82/02/08 | 1657:30 | 1657:45 | 51 | 113 | 1654 | | 5 | 151, 6 | SA |
| 4596 | 39 | 82/02/08 | 2120:40 | 2122:05 | 124 | 429 | 8465 | | 5 | 151, 7 | M |
| 4597 | 39 | 82/02/08 | 2124:55 | 2125:05 | 50 | 89 | | | 2 | | |
| 4598 | 39 | 82/02/08 | 2219:35 | 2220:25 | 65 | 63 | | | 2 | | |
| 4599 | 40 | 82/02/09 | 0043:25 | 0046:10 | 258 | 140 | 5061 | | 2 | 151, 8 | ES |
| 4600 | 40 | 82/02/09 | 0139:55 | 0141:30 | 416 | 386 | 26177 | | 3 | 151, 9 | M |
| 4601 | 40 | 82/02/09 | 0335:25 | 0339:05 | 638 | 1043 | 96412 | | 3 | 151, 11 | |
| 4602 | 40 | 82/02/09 | 0357:55 | 0402:00 | 359 | 92 | 3827 | | 2 | 151, 11 | |
| 4603 | 40 | 82/02/09 | 0440:10 | 0441:40 | 1121 | 430 | 67328 | | 4 | 151, 12 | SN, DG |
| 4604 | 40 | 82/02/09 | 0710:25 | 0712:35 | 239 | 653 | 1.61E+05 | | 4 | 151, 13 | ND, DG |
| 4605 | 40 | 82/02/09 | 0925:30 | 0925:55 | 559 | 448 | 48598 | | 2 | 151, 14 | SN |
| 4606 | 40 | 82/02/09 | 1103:20 | 1103:40 | 45 | 68 | | | 2 | | |
| 4607 | 40 | 82/02/09 | 1106:50 | 1107:35 | 554 | 232 | 21299 | | 2 | 151, 15 | |
| 4608 | 40 | 82/02/09 | 1411:00 | 1411:15 | 1056 | 580 | 73965 | | 7 | 151, 16 | SN |
| 4609 | 40 | 82/02/09 | 2239:50 | 2241:10 | 188 | 66 | | | 2 | | |
| 4610 | 40 | 82/02/09 | 2249:25 | 2250:35 | 120 | 61 | | | 2 | | |
| 4611 | 40 | 82/02/09 | 2351:20 | 2351:35 | 135 | 68 | | | 2 | | |
| 4612 | 41 | 82/02/10 | 0307:45 | 0309:15 | 380 | 460 | 12037 | | 4 | 152, 1 | M |
| 4613 | 41 | 82/02/10 | 0349:30 | 0350:25 | 90 | 69 | | | 2 | | |
| 4614 | 41 | 82/02/10 | 0634:05 | 0634:45 | 170 | 80 | | | 2 | | |
| 4615 | 41 | 82/02/10 | 0750:20 | 0751:05 | 115 | 66 | | | 2 | | |
| 4616 | 41 | 82/02/10 | 0816:30 | 0817:00 | 50 | 59 | | | 2 | | |
| 4617 | 41 | 82/02/10 | 0944:05 | 0944:40 | 244 | 819 | 25052 | | 5 | 152, 3 | |
| 4618 | 41 | 82/02/10 | 1050:30 | 1050:50 | 40 | 61 | | | 2 | | |
| 4619 | 41 | 82/02/10 | 1124:15 | 1124:50 | 142 | 55 | | | 2 | | |
| 4620 | 41 | 82/02/10 | 1140:30 | 1141:15 | 100 | 57 | | | 2 | | |
| 4621 | 41 | 82/02/10 | 1309:55 | 1311:40 | 198 | 85 | | | 2 | | |
| 4623 | 41 | 82/02/10 | 1411:25 | 1412:15 | 225 | 148 | 6438 | | 2 | 152, 4 | |
| 4622 | 41 | 82/02/10 | 1551:50 | 1552:10 | 35 | 65 | | | 2 | | |
| 4624 | 41 | 82/02/10 | 1716:55 | 1717:35 | 70 | 80 | | | 2 | | |
| 4625 | 41 | 82/02/10 | 1721:10 | 1721:35 | 50 | 60 | | | 2 | | |
| 4626 | 41 | 82/02/10 | 1732:15 | 1732:30 | 40 | 55 | | | 2 | | |
| 4627 | 41 | 82/02/10 | 1843:40 | 1851:40 | 1736 | 1427 | 2.73E+05 | | 7 | 152, 5 | M |
| 4628 | 41 | 82/02/10 | 2153:35 | 2154:20 | 134 | 132 | 2876 | | 3 | 152, 6 | |
| 4629 | 41 | 82/02/10 | 2213:40 | 2214:40 | 136 | 196 | 4422 | | 3 | 152, 7 | M |
| 4630 | 41 | 82/02/10 | 2216:10 | 2217:05 | 110 | 378 | 5477 | | 3 | 152, 7 | M |

ORIGINAL PAGE 13
OF POOR QUALITY

107

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4631 | 41 | 82/02/10 | 2335:45 | 2336:50 | 182 | 59 | | | 2 | | |
| 4632 | 42 | 82/02/11 | 0002:05 | 0004:10 | 192 | 115 | 1200 | | 2 | 152, 9 | |
| 4633 | 42 | 82/02/11 | 0141:00 | 0141:15 | 155 | 61 | | | 2 | | |
| 4634 | 42 | 82/02/11 | 0143:05 | 0144:45 | 120 | 64 | | | 2 | | |
| 4635 | 42 | 82/02/11 | 0315:15 | 0315:30 | 90 | 50 | | | 2 | | |
| 4636 | 42 | 82/02/11 | 0317:25 | 0317:40 | 140 | 57 | | | 2 | | |
| 4637 | 42 | 82/02/11 | 0728:50 | 0730:00 | 130 | 55 | | | 2 | | |
| 4638 | 42 | 82/02/11 | 0916:10 | 0916:40 | 60 | 53 | | | 2 | | |
| 4639 | 42 | 82/02/11 | 1209:45 | 1211:45 | 326 | 531 | 18648 | | 4 | 152, 10 | |
| 4640 | 42 | 82/02/11 | 1344:40 | 1345:30 | 144 | 1083 | 12093 | | 5 | 153, 11 | |
| 4642 | 42 | 82/02/11 | 1526:20 | 1526:40 | 55 | 109 | 812 | | 2 | 152, 13 | |
| 4643 | 42 | 82/02/11 | 1533:10 | 1533:30 | 50 | 74 | | | 2 | | |
| 4644 | 42 | 82/02/11 | 1832:45 | 1834:00 | 137 | 233 | 7983 | | 2 | 152, 14 | |
| 4645 | 42 | 82/02/11 | 2030:55 | 2034:45 | 492 | 426 | 23056 | | 4 | 152, 15 | |
| 4646 | 42 | 82/02/11 | 2323:55 | 2324:45 | 85 | 76 | | | 2 | | |
| 4647 | 42 | 82/02/11 | 2351:15 | 2352:10 | 857 | 449 | 13887 | | 4 | 152, 16 | |
| 4648 | 43 | 82/02/12 | 0546:10 | 0546:20 | 20 | 55 | | | 2 | | |
| 4649 | 43 | 82/02/12 | 0548:40 | 0550:10 | 199 | 479 | 10229 | | 4 | 153, 1 | |
| 4650 | 43 | 82/02/12 | 0628:40 | 0628:55 | 49 | 131 | 918 | | 2 | 153, 2 | |
| 4651 | 43 | 82/02/12 | 0633:55 | 0634:40 | 60 | 62 | | | 2 | | |
| 4652 | 43 | 82/02/12 | 1118:05 | 1118:15 | 45 | 121 | 527 | | 2 | 153, 3 | |
| 4653 | 43 | 82/02/12 | 1340:30 | 1340:50 | 73 | 107 | 1468 | | 2 | 153, 4 | |
| 4654 | 43 | 82/02/12 | 1701:10 | 1703:20 | 355 | 68 | 4438 | | 2 | 153, 5 | ES |
| 4655 | 43 | 82/02/12 | 1831:40 | 1831:55 | 50 | 82 | | | 2 | | |
| 4656 | 43 | 82/02/12 | 1834:35 | 1834:50 | 30 | 61 | | | 2 | | |
| 4657 | 43 | 82/02/12 | 2127:05 | 2127:45 | 109 | 177 | 2724 | | 3 | 153, 6 | |
| 4658 | 43 | 82/02/12 | 2130:15 | 2135:05 | 1378 | 5966 | 6.29E+05 | | 9 | 153, 6 | M |
| 4659 | 43 | 82/02/12 | 2154:45 | 2157:40 | 542 | 4691 | 1.56E+05 | | 13 | 153, 6 | |
| 4660 | 44 | 82/02/13 | 0116:35 | 0116:55 | 45 | 74 | | | 2 | | |
| 4661 | 44 | 82/02/13 | 0126:45 | 0127:15 | 70 | 57 | | | 2 | | |
| 4662 | 44 | 82/02/13 | 0130:20 | 0130:45 | 40 | 52 | | | 2 | | |
| 4663 | 44 | 82/02/13 | 0402:40 | 0402:55 | 165 | 80 | | | 2 | | |
| 4664 | 44 | 82/02/13 | 0702:10 | 0703:05 | 95 | 60 | | | 2 | | |
| 4665 | 44 | 82/02/13 | 0833:15 | 0833:55 | 115 | 56 | | | 2 | | |
| 4666 | 44 | 82/02/13 | 0914:00 | 0914:45 | 88 | 111 | 813 | | 2 | 153, 7 | |
| 4667 | 44 | 82/02/13 | 1511:55 | 1512:40 | 95 | 68 | | | 2 | | |
| 4668 | 44 | 82/02/13 | 1822:10 | 1822:40 | 55 | 53 | | | 2 | | |
| 4669 | 44 | 82/02/13 | 1941:00 | 1941:45 | 85 | 52 | | | 2 | | |
| * 5083 | 44 | 82/02/13 | 1944:55 | 1945:15 | 50 | 65 | | | 2 | | I |
| 4670 | 44 | 82/02/13 | 1957:35 | 1958:10 | 90 | 202 | 2380 | | 3 | 153, 8 | |
| 4671 | 44 | 82/02/13 | 2012:20 | 2016:15 | 291 | 107 | 4601 | | 3 | 153, 9 | ES |
| 4672 | 44 | 82/02/13 | 2326:05 | 2332:10 | 658 | 408 | 11238 | | 4 | 153, 10 | M |
| 4673 | 45 | 82/02/14 | 0036:10 | 0036:50 | 75 | 80 | | | 2 | | |
| 4674 | 45 | 82/02/14 | 0100:40 | 0101:05 | 70 | 63 | | | 2 | | |
| 4675 | 45 | 82/02/14 | 0119:52 | 0120:45 | 176 | 113 | 1821 | | 2 | 153, 11 | |
| 4676 | 45 | 82/02/14 | 0218:00 | 0219:10 | 90 | 57 | | | 2 | | ND |
| 4677 | 45 | 82/02/14 | 0219:55 | 0221:00 | 175 | 62 | | | 2 | | ND |
| 4678 | 45 | 82/02/14 | 0343:15 | 0344:00 | 150 | 4521 | 1.10E+05 | | 6 | 153, 12 | M |
| 4679 | 45 | 82/02/14 | 0407:25 | 0408:15 | 120 | 229 | 6714 | | 3 | 153, 14 | |
| 4680 | 45 | 82/02/14 | 0540:40 | 0541:10 | 55 | 56 | | | 2 | | |
| 4681 | 45 | 82/02/14 | 0547:00 | 0547:10 | 70 | 54 | | | 2 | | |
| 4682 | 45 | 82/02/14 | 0556:30 | 0557:25 | 120 | 69 | | | 2 | | |
| 4683 | 45 | 82/02/14 | 0607:35 | 0608:10 | 35 | 67 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

108

| HXBBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 4684 | 45 | 82/02/14 | 1036:55 | 1037:45 | 90 | 92 | | | 2 | | |
| 4685 | 45 | 82/02/14 | 1053:00 | 1054:00 | 90 | 66 | | | 2 | | |
| 4686 | 45 | 82/02/14 | 1402:35 | 1403:25 | 108 | 130 | 3740 | | 2 | 153, 15 | ND |
| 4687 | 45 | 82/02/14 | 1945:00 | 1945:20 | 35 | 61 | | | 2 | | |
| 4688 | 45 | 82/02/14 | 2309:35 | 2310:00 | 53 | 120 | 792 | | 2 | 153, 16 | |
| 4689 | 45 | 82/02/14 | 2310:50 | 2311:40 | 103 | 257 | 2570 | | 3 | 153, 16 | |
| 4690 | 46 | 82/02/15 | 0232:55 | 0233:05 | 30 | 50 | | | 2 | | |
| 4691 | 46 | 82/02/15 | 1609:30 | 1609:55 | 148 | 56 | | | 2 | | |
| 4692 | 46 | 82/02/15 | 1803:35 | 1803:40 | 30 | 61 | | | 2 | | |
| 4693 | 46 | 82/02/15 | 1939:05 | 1939:25 | 35 | 95 | | | 2 | | |
| 4694 | 47 | 82/02/16 | 0443:45 | 0443:50 | 35 | 47 | | | 2 | | |
| 4695 | 47 | 82/02/16 | 1003:15 | 1004:50 | 188 | 176 | 6969 | | 2 | 154, 1 | |
| 4696 | 47 | 82/02/16 | 1513:05 | 1513:25 | 30 | 62 | | | 2 | | |
| 4697 | 47 | 82/02/16 | 1859:25 | 1859:50 | 523 | 431 | 20605 | | 3 | 154, 2 | SN |
| 4698 | 48 | 82/02/17 | 0438:20 | 0438:40 | 40 | 154 | 1631 | | 2 | 154, 3 | |
| 4699 | 48 | 82/02/17 | 0636:35 | 0636:50 | 40 | 64 | | | 2 | | |
| 4700 | 48 | 82/02/17 | 0916:55 | 0917:10 | 40 | 51 | | | 2 | | |
| 4701 | 48 | 82/02/17 | 0955:55 | 1000:25 | 600 | 245 | 15347 | | 3 | 154, 4 | |
| 4702 | 48 | 82/02/17 | 1904:00 | 1904:05 | 20 | 70 | | | 2 | | |
| 4703 | 48 | 82/02/17 | 1915:20 | 1915:40 | 65 | 82 | | | 3 | | |
| 4704 | 48 | 82/02/17 | 1943:20 | 1944:35 | 162 | 314 | 14686 | | 5 | 154, 5 | M, SA |
| 4705 | 48 | 82/02/17 | 2332:00 | 2333:15 | 367 | 233 | 8581 | | 4 | 154, 6 | |
| 4706 | 49 | 82/02/18 | 0320:45 | 0321:40 | 158 | 340 | 8963 | | 3 | 154, 7 | |
| 4707 | 49 | 82/02/18 | 0339:45 | 0340:15 | 130 | 53 | | | 2 | | |
| 4708 | 49 | 82/02/18 | 0444:00 | 0446:15 | 310 | 304 | 9316 | | 4 | 154, 8 | |
| 4709 | 49 | 82/02/18 | 0501:05 | 0503:00 | 195 | 63 | | | 2 | | |
| 4710 | 49 | 82/02/18 | 2331:55 | 2333:55 | 728 | 1019 | 2.02E+05 | | 4 | 154, 9 | M, ND |
| 4711 | 50 | 82/02/19 | 0053:40 | 0055:05 | 125 | 47 | | | 2 | | |
| 4712 | 50 | 82/02/19 | 0239:50 | 0240:05 | 45 | 57 | | | 2 | | |
| 4713 | 50 | 82/02/19 | 0429:40 | 0429:50 | 46 | 108 | 932 | | 2 | 154, 11 | |
| 4714 | 50 | 82/02/19 | 0451:45 | 0453:20 | 472 | 347 | 19566 | | 3 | 154, 12 | |
| 4715 | 50 | 82/02/19 | 0555:50 | 0556:40 | 151 | 208 | 6871 | | 2 | 154, 13 | IS |
| 4716 | 50 | 82/02/19 | 1652:25 | 1652:35 | 20 | 89 | | | 2 | | |
| 4717 | 51 | 82/02/20 | 0351:55 | 0353:45 | 135 | 71 | | | 2 | | |
| 4718 | 51 | 82/02/20 | 0725:15 | 0725:35 | 60 | 71 | | | 2 | | |
| 4719 | 51 | 82/02/20 | 0726:55 | 0727:40 | 65 | 69 | | | 2 | | |
| 4720 | 51 | 82/02/20 | 0919:35 | 0924:45 | 1003 | 1728 | 2.80E+05 | | 6 | 154, 14 | M, EN |
| 4721 | 51 | 82/02/20 | 1050:10 | 1051:00 | 166 | 120 | 2883 | | 2 | 154, 15 | |
| 4722 | 51 | 82/02/20 | 1235:00 | 1235:15 | 40 | 77 | | | 2 | | |
| 4723 | 51 | 82/02/20 | 2158:40 | 2159:45 | 181 | 138 | 3972 | | 2 | 154, 16 | SG, DG |
| 4724 | 52 | 82/02/21 | 0028:30 | 0029:00 | 75 | 60 | | | 2 | | |
| 4725 | 52 | 82/02/21 | 0122:10 | 0125:25 | 311 | 61 | 2522 | | 2 | 155, 1 | |
| 4726 | 52 | 82/02/21 | 1055:00 | 1055:15 | 50 | 75 | | | 2 | | |
| 4727 | 52 | 82/02/21 | 1357:30 | 1357:50 | 55 | 68 | | | 2 | | |
| 4728 | 52 | 82/02/21 | 1852:15 | 1852:40 | 60 | 58 | | | 2 | | |
| 4729 | 53 | 82/02/22 | 0206:25 | 0207:20 | 120 | 71 | | | 2 | | |
| 4730 | 53 | 82/02/22 | 0726:10 | 0726:30 | 45 | 60 | | | 2 | | |
| 4732 | 53 | 82/02/22 | 1208:40 | 1209:15 | 253 | 75 | 2394 | | 2 | 155, 3 | |
| 4733 | 54 | 82/02/23 | 0006:40 | 0006:55 | 40 | 51 | | | 2 | | |
| 4734 | 54 | 82/02/23 | 0015:15 | 0015:45 | 60 | 74 | | | 2 | | |
| 4735 | 54 | 82/02/23 | 0152:40 | 0154:58 | 257 | 63 | 2559 | | 2 | 155, 4 | |
| 4736 | 54 | 82/02/23 | 0312:42 | 0314:35 | 560 | 531 | 39173 | | 5 | 155, 5 | M |
| 4737 | 54 | 82/02/23 | 0514:40 | 0516:27 | 221 | 188 | 6518 | | 3 | 155, 7 | |

ORIGINAL RECORDS OF POOR QUALITY

109

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TYPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|------------|
| 4738 | 54 | 82/02/23 | 0530:00 | 0530:25 | 70 | 54 | | | 2 | | |
| 4739 | 54 | 82/02/23 | 1746:11 | 1746:41 | 127 | 58 | | | 2 | | |
| 4740 | 55 | 82/02/24 | 0045:18 | 0045:38 | 45 | 48 | | | 2 | | |
| 4741 | 55 | 82/02/24 | 0330:38 | 0331:20 | 273 | 105 | 2005 | | 4 | 155, 8 | |
| 4742 | 55 | 82/02/24 | 0509:05 | 0509:25 | 58 | 248 | 2331 | | 5 | 155, 9 | |
| 4743 | 55 | 82/02/24 | 0627:20 | 0627:21 | 135 | 148 | 3643 | | 7 | 155, 10 | SA, AX |
| 4744 | 55 | 82/02/24 | 0633:30 | 0649:31 | 1903 | 105 | 43004 | | 2 | 155, 10 | |
| 4745 | 55 | 82/02/24 | 1134:10 | 1135:49 | 195 | 112 | 4104 | | 2 | 155, 11 | |
| 4746 | 55 | 82/02/24 | 1141:25 | 1142:19 | 123 | 59 | | | 2 | | |
| 4747 | 55 | 82/02/24 | 1449:30 | 1450:25 | 194 | 96 | | | 2 | | |
| 4748 | 55 | 82/02/24 | 1549:50 | 1551:40 | 283 | 168 | 1.99E+05 | | 2 | 155, 12 | DG, EG, ND |
| 4749 | 55 | 82/02/24 | 1917:20 | 1918:15 | 120 | 79 | | | 2 | | |
| 4750 | 55 | 82/02/24 | 2029:10 | 2029:40 | 190 | 76 | | | 7 | | |
| 4751 | 56 | 82/02/25 | 0338:15 | 0340:50 | 232 | 119 | 3141 | | 2 | 155, 13 | |
| 4752 | 56 | 82/02/25 | 0514:20 | 0517:05 | 264 | 125 | 4281 | | 2 | 155, 14 | EN |
| 4753 | 56 | 82/02/25 | 0947:30 | 0949:40 | 180 | 75 | | | 2 | | DG |
| 4754 | 56 | 82/02/25 | 0951:20 | 0951:50 | 60 | 67 | | | 2 | | |
| 4755 | 56 | 82/02/25 | 0952:35 | 0954:35 | 145 | 86 | | | 2 | | |
| 4756 | 56 | 82/02/25 | 1438:40 | 1439:20 | 95 | 143 | 2399 | | 3 | 155, 15 | |
| 4757 | 56 | 82/02/25 | 1442:20 | 1442:50 | 206 | 111 | 2125 | | 2 | 155, 15 | |
| 4758 | 56 | 82/02/25 | 1605:20 | 1606:40 | 175 | 152 | 4651 | | 2 | 155, 16 | |
| 4759 | 56 | 82/02/25 | 2017:15 | 2017:50 | 121 | 111 | 2602 | | 5 | 156, 1 | |
| 4760 | 56 | 82/02/25 | 2151:25 | 2152:35 | 251 | 1028 | 59603 | | 9 | 156, 2 | M |
| 4761 | 56 | 82/02/25 | 2236:30 | 2237:15 | 110 | 86 | | | 7 | | |
| 4762 | 57 | 82/02/26 | 0016:05 | 0018:50 | 342 | 189 | 21656 | | 14 | 156, 4 | AX |
| 4763 | 57 | 82/02/26 | 0306:10 | 0319:40 | 1425 | 167 | 45574 | | 2 | 156, 3 | EN |
| 4764 | 57 | 82/02/26 | 0424:55 | 0425:40 | 120 | 100 | | | 2 | | |
| 4765 | 57 | 82/02/26 | 0924:30 | 0924:50 | 110 | 89 | | | 2 | | |
| 4766 | 57 | 82/02/26 | 1413:50 | 1414:18 | 40 | 60 | | | 2 | | |
| 4767 | 57 | 82/02/26 | 1516:50 | 1519:20 | 371 | 255 | 9012 | | 5 | 156, 6 | M |
| 4768 | 57 | 82/02/26 | 1724:35 | 1725:24 | 123 | 69 | | | 2 | | |
| 4769 | 57 | 82/02/26 | 1735:30 | 1736:24 | 109 | 326 | 4730 | | 5 | 156, 7 | M |
| 4770 | 57 | 82/02/26 | 2002:50 | 2004:20 | 295 | 84 | | | 5 | | |
| 4774 | 57 | 82/02/26 | 2029:00 | 2029:25 | 85 | 75 | | | 2 | | |
| 4771 | 57 | 82/02/26 | 2048:50 | 2049:30 | 55 | 75 | | | 2 | | |
| 4775 | 57 | 82/02/26 | 2121:55 | 2125:00 | 552 | 70 | 5953 | | 4 | 156, 9 | |
| 4772 | 57 | 82/02/26 | 2136:05 | 2139:40 | 716 | 190 | 38762 | | 6 | 156, 8 | |
| 4776 | 57 | 82/02/26 | 2202:25 | 2202:40 | 65 | 50 | | | 2 | | |
| 4773 | 57 | 82/02/26 | 2312:20 | 2312:30 | 60 | 54 | | | 2 | | |
| 4777 | 57 | 82/02/26 | 2350:00 | 2350:45 | 145 | 59 | | | 5 | | |
| 4778 | 58 | 82/02/27 | 0434:35 | 0434:50 | 55 | 85 | | | 2 | | |
| 6300 | 58 | 82/02/27 | 0444:06 | 0444:20 | 56 | 61 | | | 2 | | |
| 4779 | 59 | 82/02/28 | 1940:45 | 1941:08 | 67 | 59 | | | 2 | | |
| 4780 | 60 | 82/03/01 | 0112:58 | 0113:05 | 18 | 75 | | | 2 | | |
| 4781 | 60 | 82/03/01 | 0235:54 | 0239:08 | 301 | 418 | 15700 | | 14 | 156, 10 | |
| 4782 | 60 | 82/03/01 | 0535:42 | 0537:05 | 114 | 70 | | | 2 | | |
| 4783 | 60 | 82/03/01 | 1634:50 | 1636:05 | 218 | 104 | 5271 | | 4 | 156, 11 | |
| 4784 | 60 | 82/03/01 | 1917:19 | 1917:43 | 44 | 60 | | | 2 | | |
| 4785 | 60 | 82/03/01 | 1924:08 | 1924:35 | 47 | 408 | 3288 | | 5 | 156, 12 | M |
| 4786 | 60 | 82/03/01 | 2053:00 | 2054:29 | 703 | 153 | 14757 | | 5 | 156, 14 | |
| 4787 | 60 | 82/03/01 | 2137:00 | 2138:54 | 151 | 78 | | | 4 | | |
| 4788 | 60 | 82/03/01 | 2228:44 | 2237:55 | 804 | 751 | 1.35E+05 | | 6 | 156, 15 | M |
| 4789 | 61 | 82/03/02 | 0001:34 | 0020:40 | 1585 | 160 | 40684 | | 4 | 157, 1 | |

ORIGINAL PAGE 19
OF POOR QUALITY

110

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 4790 | 61 | 82/03/02 | 0039:56 | 0047:35 | 1365 | 260 | 1.50E+05 | | 7 | 157, 1 | EN |
| 4791 | 61 | 82/03/02 | 0823:30 | 0824:15 | 85 | 74 | | | 2 | | |
| 4792 | 61 | 82/03/02 | 1510:17 | 1510:25 | 15 | 70 | | | 2 | | |
| 4793 | 61 | 82/03/02 | 1558:38 | 1600:30 | 629 | 135 | 9568 | | 2 | 157, 2 | |
| 4794 | 61 | 82/03/02 | 1644:12 | 1645:10 | 106 | 64 | | | 2 | | |
| 4795 | 61 | 82/03/02 | 2120:00 | 2120:45 | 140 | 64 | | | 5 | | |
| 4796 | 61 | 82/03/02 | 2257:25 | 2259:15 | 182 | 60 | | | 4 | | |
| 4797 | 61 | 82/03/02 | 2303:49 | 2305:18 | 205 | 74 | | | 5 | | |
| 4798 | 62 | 82/03/03 | 0124:24 | 0124:25 | 277 | 256 | 13713 | | 9 | 157, 3 | SA, AX |
| 4799 | 62 | 82/03/03 | 1130:55 | 1133:05 | 297 | 105 | 2934 | | 2 | 157, 4 | |
| 4800 | 63 | 82/03/04 | 0145:14 | 0147:08 | 282 | 170 | 10343 | | 2 | 157, 5 | |
| 4801 | 63 | 82/03/04 | 1303:30 | 1303:41 | 20 | 58 | | | 2 | | |
| 4802 | 63 | 82/03/04 | 1420:40 | 1420:55 | 74 | 213 | 213 | | 3 | 157, 6 | |
| 4803 | 63 | 82/03/04 | 2059:14 | 2059:30 | 80 | 183 | 1629 | | 2 | 157 | |
| 4804 | 63 | 82/03/04 | 2214:05 | 2215:12 | 172 | 163 | 4395 | | 2 | 157, 7 | |
| 4805 | 63 | 82/03/04 | 2241:50 | 2242:11 | 50 | 63 | | | 2 | 157, 8 | |
| 4806 | 64 | 82/03/05 | 0141:25 | 0141:58 | 122 | 61 | | | 2 | | |
| 4807 | 64 | 82/03/05 | 0241:26 | 0243:34 | 1032 | 1481 | 1.54E+05 | | 5 | 157, 9 | M |
| 4808 | 64 | 82/03/05 | 0506:18 | 0506:50 | 60 | 60 | | | 2 | | |
| 4809 | 64 | 82/03/05 | 0640:52 | 0641:52 | 77 | 501 | 11735 | | 5 | 157, 10 | M |
| 4810 | 64 | 82/03/05 | 1102:06 | 1102:17 | 50 | 64 | | | 2 | | |
| 4814 | 64 | 82/03/05 | 1828:15 | 1828:50 | 120 | 61 | | | 2 | | |
| 4811 | 64 | 82/03/05 | 1828:35 | 1828:51 | 136 | 62 | | | 2 | | |
| 4812 | 64 | 82/03/05 | 1854:19 | 1854:52 | 108 | 86 | | | 2 | | |
| 4815 | 64 | 82/03/05 | 1854:35 | 1854:55 | 90 | 75 | | | 2 | | |
| 4813 | 64 | 82/03/05 | 1902:35 | 1903:07 | 199 | 60 | | | 2 | | |
| 4816 | 64 | 82/03/05 | 2001:55 | 2004:15 | 190 | 62 | | | 2 | | |
| 4817 | 64 | 82/03/05 | 2040:35 | 2042:05 | 140 | 64 | | | 5 | | |
| 4818 | 64 | 82/03/05 | 2053:30 | 2054:15 | 73 | 170 | 3404 | | 2 | 157, 11 | |
| 4819 | 64 | 82/03/05 | 2137:50 | 2139:50 | 200 | 76 | | | 5 | | |
| 4820 | 64 | 82/03/05 | 2150:35 | 2151:45 | 185 | 59 | | | 2 | | |
| 4821 | 64 | 82/03/05 | 2220:05 | 2221:05 | 270 | 74 | 3123 | | 2 | 157, 12 | |
| 4822 | 65 | 82/03/06 | 0136:55 | 0137:10 | 65 | 90 | | | 2 | | |
| 4823 | 65 | 82/03/06 | 0242:45 | 0243:35 | 80 | 58 | | | 2 | | |
| 4824 | 65 | 82/03/06 | 0803:15 | 0803:45 | 38 | 173 | 1458 | | 3 | 157, 13 | |
| 4825 | 65 | 82/03/06 | 1105:25 | 1105:50 | 50 | 62 | | | 2 | | |
| 4826 | 65 | 82/03/06 | 1225:00 | 1225:35 | 65 | 61 | | | 2 | | |
| 4827 | 65 | 82/03/06 | 2121:23 | 2123:15 | 244 | 198 | 9644 | | 5 | 157, 14 | AX |
| 4828 | 65 | 82/03/06 | 2302:24 | 2304:32 | 180 | 74 | | | 2 | | |
| 4829 | 66 | 82/03/07 | 0120:05 | 0120:43 | 107 | 53 | | | 2 | | |
| 4830 | 66 | 82/03/07 | 0246:24 | 0304:46 | 1123 | 2833 | 2.59E+05 | | 10 | 157, 15 | M, EN |
| 4831 | 66 | 82/03/07 | 0405:40 | 0420:35 | 2069 | 289 | 2.50E+05 | | 7 | 157, 16 | EN |
| 4832 | 66 | 82/03/07 | 0614:13 | 0614:20 | 31 | 62 | | | 2 | | |
| 4833 | 66 | 82/03/07 | 1351:40 | 1352:32 | 203 | 1481 | 49262 | | 8 | 158, 1 | M |
| 4834 | 66 | 82/03/07 | 1715:49 | 1716:38 | 76 | 70 | | | 2 | | |
| 4835 | 66 | 82/03/07 | 1958:42 | 1958:51 | 50 | 75 | | | 2 | | |
| 4836 | 66 | 82/03/07 | 2002:00 | 2002:22 | 160 | 66 | | | 2 | | |
| 4837 | 66 | 82/03/07 | 2010:48 | 2011:46 | 148 | 97 | | | 4 | | AX |
| 4838 | 67 | 82/03/08 | 0043:45 | 0044:15 | 66 | 56 | | | 2 | | |
| 4839 | 67 | 82/03/08 | 0358:27 | 0358:51 | 40 | 52 | | | 2 | | |
| 4840 | 67 | 82/03/08 | 1303:56 | 1307:26 | 324 | 111 | 6585 | | 2 | 158, 3 | |
| 4841 | 67 | 82/03/08 | 1312:20 | 1313:32 | 160 | 87 | | | 2 | | |
| 4842 | 67 | 82/03/08 | 1940:44 | 1947:12 | 631 | 206 | 27624 | | 3 | 158, 4 | |

ORIGINAL PAGE IS
OF POOR QUALITY

111

| HXBBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4843 | 67 | 82/03/08 | 1956:58 | 2017:38 | 1267 | 1482 | 2.60E+05 | | 7 | 158, 4 | |
| 4844 | 68 | 82/03/09 | 0533:22 | 0533:49 | 90 | 62 | | | 2 | | |
| 4845 | 68 | 82/03/09 | 2254:25 | 2300:50 | 693 | 132 | 28720 | | 5 | 158, 5 | AX |
| 4846 | 68 | 82/03/09 | 2312:15 | 2313:55 | 153 | 122 | 1090 | | 2 | 158, 5 | |
| 4847 | 70 | 82/03/11 | 0254:22 | 0254:58 | 98 | 99 | | | 2 | | |
| 4848 | 70 | 82/03/11 | 0613:39 | 0614:14 | 44 | 60 | | | 2 | | |
| 4849 | 70 | 82/03/11 | 1557:00 | 1557:30 | 45 | 81 | | | 2 | | |
| 4850 | 71 | 82/03/12 | 1241:00 | 1241:25 | 110 | 91 | | | 2 | | |
| 4851 | 72 | 82/03/13 | 1523:20 | 1524:00 | 60 | 58 | | | 2 | | |
| 4852 | 73 | 82/03/14 | 2114:56 | 2115:04 | 43 | 163 | 854 | | 4 | 185, 6 | |
| 4853 | 74 | 82/03/15 | 0032:07 | 0032:54 | 79 | 58 | | | 2 | | |
| 4855 | 74 | 82/03/15 | 0725:50 | 0726:20 | 55 | 60 | | | 2 | | |
| 4856 | 74 | 82/03/15 | 1626:20 | 1627:05 | 80 | 66 | | | 4 | | |
| 4857 | 74 | 82/03/15 | 1804:02 | 1804:40 | 76 | 62 | | | 5 | | |
| 4858 | 75 | 82/03/16 | 0156:10 | 0156:33 | 48 | 220 | 2008 | | 3 | 158, 7 | |
| 4859 | 75 | 82/03/16 | 0809:36 | 0809:46 | 58 | 68 | | | 2 | | |
| 4860 | 75 | 82/03/16 | 1118:30 | 1120:25 | 180 | 65 | | | 2 | | |
| 4861 | 76 | 82/03/17 | 0153:15 | 0155:33 | 184 | 74 | | | 2 | | |
| 4865 | 76 | 82/03/17 | 0957:09 | 0958:11 | 62 | 64 | | | 2 | | |
| 4866 | 76 | 82/03/17 | 1010:16 | 1011:01 | 98 | 63 | | | 2 | | |
| 4862 | 76 | 82/03/17 | 1107:18 | 1108:16 | 119 | 129 | 2438 | | 2 | 158, 8 | |
| 4863 | 76 | 82/03/17 | 1111:31 | 1117:18 | 609 | 107 | 8605 | | 2 | 158, 8 | |
| 4864 | 76 | 82/03/17 | 1153:39 | 1154:24 | 69 | 55 | | | 2 | | |
| 4867 | 76 | 82/03/17 | 1239:05 | 1239:30 | 60 | 100 | | | 2 | | |
| 4868 | 76 | 82/03/17 | 1240:15 | 1241:23 | 155 | 75 | | | 2 | | |
| 4869 | 76 | 82/03/17 | 1306:25 | 1306:40 | 35 | 84 | | | 2 | | |
| 4870 | 76 | 82/03/17 | 1424:27 | 1424:58 | 81 | 235 | 3952 | | 4 | 158, 9 | |
| 4871 | 76 | 82/03/17 | 1504:58 | 1505:07 | 30 | 75 | | | 2 | | |
| 4872 | 76 | 82/03/17 | 2202:46 | 2203:03 | 130 | 155 | 2968 | | 2 | 158, 10 | |
| 4873 | 77 | 82/03/18 | 0816:00 | 0816:50 | 171 | 107 | 3713 | | 2 | 158, 11 | |
| 4874 | 77 | 82/03/18 | 1045:05 | 1045:50 | 70 | 66 | | | 2 | | |
| 4875 | 77 | 82/03/18 | 1053:55 | 1054:15 | 40 | 62 | | | 2 | | |
| 4876 | 77 | 82/03/18 | 1230:40 | 1231:35 | 208 | 243 | 6746 | | 2 | 158, 12 | |
| 4877 | 77 | 82/03/18 | 1354:55 | 1355:15 | 137 | 279 | 26420 | | 2 | 158, 13 | SG |
| 4878 | 77 | 82/03/18 | 1543:45 | 1544:45 | 55 | 62 | | | 2 | | |
| 4879 | 77 | 82/03/18 | 1721:55 | 1722:45 | 163 | 109 | 2528 | | 4 | 158, 14 | |
| 4880 | 77 | 82/03/18 | 1741:35 | 1742:00 | 55 | 61 | | | 2 | | |
| 4881 | 77 | 82/03/18 | 2040:20 | 2041:06 | 94 | 123 | 1005 | | 2 | 158, 15 | |
| 4882 | 77 | 82/03/18 | 2042:09 | 2043:17 | 123 | 54 | | | 2 | | |
| 4883 | 77 | 82/03/18 | 2341:20 | 2342:25 | 125 | 56 | | | 2 | | |
| 4884 | 78 | 82/03/19 | 0419:00 | 0420:25 | 170 | 75 | | | 2 | | |
| 4885 | 78 | 82/03/19 | 0435:35 | 0459:05 | 1761 | 371 | 39650 | | 3 | 158, 16 | M |
| 4886 | 78 | 82/03/19 | 0918:35 | 0918:45 | 30 | 64 | | | 2 | | |
| 4887 | 78 | 82/03/19 | 1253:50 | 1254:05 | 70 | 91 | | | 2 | | |
| 4888 | 78 | 82/03/19 | 1424:25 | 1424:40 | 50 | 58 | | | 2 | | |
| 4889 | 78 | 82/03/19 | 1532:35 | 1534:30 | 1454 | 173 | 38296 | | 2 | 159, 1 | |
| 4890 | 78 | 82/03/19 | 2002:25 | 2002:44 | 56 | 60 | | | 2 | | |
| 4891 | 78 | 82/03/19 | 2003:56 | 2004:16 | 46 | 167 | 2201 | | 4 | 159, 2 | |
| 4892 | 79 | 82/03/20 | 0102:35 | 0103:40 | 170 | 94 | | | 2 | | |
| 4893 | 80 | 82/03/21 | 0404:45 | 0406:10 | 195 | 63 | | | 2 | | |
| 4894 | 80 | 82/03/21 | 0744:20 | 0745:05 | 214 | 342 | 6991 | | 3 | 159, 3 | |
| 4895 | 80 | 82/03/21 | 0911:35 | 0914:05 | 200 | 62 | | | 2 | | |
| 4896 | 80 | 82/03/21 | 1150:20 | 1150:55 | 70 | 55 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 4897 | 80 | 82/03/21 | 1323:00 | 1325:00 | 180 | 75 | | | 4 | | |
| 4898 | 80 | 82/03/21 | 1452:55 | 1453:10 | 42 | 195 | 1054 | | 3 | 159, 4 | M |
| 4899 | 80 | 82/03/21 | 1815:10 | 1816:10 | 73 | 122 | 1352 | | 2 | 159, 6 | |
| 4900 | 80 | 82/03/21 | 2140:45 | 2141:20 | 120 | 65 | | | 2 | | |
| 4901 | 80 | 82/03/21 | 2147:55 | 2148:15 | 35 | 89 | | | 2 | | |
| 4902 | 81 | 82/03/22 | 0033:20 | 0034:05 | 120 | 63 | | | 2 | | |
| 4903 | 81 | 82/03/22 | 0044:55 | 0045:35 | 165 | 85 | | | 2 | | |
| 4904 | 81 | 82/03/22 | 0152:40 | 0153:00 | 115 | 71 | | | 2 | | |
| 4917 | 81 | 82/03/22 | 0314:07 | 0316:36 | 198 | 56 | | | 2 | | AX |
| 4905 | 81 | 82/03/22 | 0822:13 | 0822:37 | 65 | 105 | 1037 | | 2 | 159, 7 | |
| 4906 | 81 | 82/03/22 | 0825:52 | 0826:34 | 68 | 113 | | | 2 | | |
| 4907 | 81 | 82/03/22 | 0909:15 | 0909:49 | 73 | 70 | | | 2 | | |
| 4908 | 81 | 82/03/22 | 1128:01 | 1128:51 | 161 | 87 | | | 12 | | AX |
| 4909 | 81 | 82/03/22 | 1218:03 | 1218:11 | 96 | 63 | | | 2 | | |
| 4910 | 81 | 82/03/22 | 1624:07 | 1625:45 | 319 | 303 | 14091 | | 2 | 159, 8 | |
| 4915 | 81 | 82/03/22 | 2252:17 | 2252:46 | 60 | 70 | | | 2 | | |
| 4916 | 81 | 82/03/22 | 2303:29 | 2303:34 | 14 | 76 | | | 2 | | |
| 4911 | 82 | 82/03/23 | 0016:53 | 0016:58 | 42 | 72 | | | 2 | | |
| 4918 | 82 | 82/03/23 | 0328:33 | 0329:07 | 75 | 74 | | | 2 | | |
| 4912 | 82 | 82/03/23 | 0627:02 | 0627:21 | 34 | 73 | | | 2 | | |
| 4919 | 82 | 82/03/23 | 0645:23 | 0645:55 | 54 | 78 | | | 2 | | |
| 4920 | 82 | 82/03/23 | 0714:54 | 0715:34 | 91 | 284 | 4297 | | 2 | 159, 10 | ND |
| 4913 | 82 | 82/03/23 | 0855:05 | 0855:39 | 165 | 85 | | | 2 | | |
| 4914 | 82 | 82/03/23 | 1116:01 | 1116:09 | 16 | 136 | 334 | | 2 | 159, 9 | |
| 4921 | 82 | 82/03/23 | 1931:02 | 1931:13 | 26 | 105 | 389 | | 2 | 159, 11 | |
| 4922 | 82 | 82/03/23 | 2100:12 | 2102:03 | 189 | 92 | | | 2 | | |
| 4923 | 82 | 82/03/23 | 2107:58 | 2108:17 | 114 | 80 | | | 3 | | |
| 4924 | 82 | 82/03/23 | 2355:52 | 2356:23 | 83 | 129 | 1501 | | 3 | 159, 12 | |
| 4925 | 83 | 82/03/24 | 0019:32 | 0020:43 | 192 | 85 | | | 2 | | |
| 4926 | 83 | 82/03/24 | 0032:26 | 0035:07 | 182 | 89 | | | 2 | | |
| 4927 | 83 | 82/03/24 | 0350:39 | 0351:06 | 73 | 63 | | | 2 | | |
| 4928 | 83 | 82/03/24 | 0457:30 | 0457:40 | 135 | 780 | 13930 | | 4 | 159, 13 | |
| 4929 | 83 | 82/03/24 | 0626:00 | 0626:06 | 18 | 67 | | | 2 | | |
| 4930 | 83 | 82/03/24 | 0654:51 | 0655:13 | 66 | 575 | 6681 | | 5 | 159, 14 | |
| 4931 | 83 | 82/03/24 | 1137:35 | 1137:40 | 19 | 64 | | | 2 | | |
| 4932 | 83 | 82/03/24 | 2034:15 | 2034:56 | 194 | 281 | 10208 | | 4 | 159, 15 | |
| 4933 | 83 | 82/03/24 | 2200:19 | 2201:08 | 350 | 106 | 6313 | | 2 | 159, 16 | SN |
| 4934 | 84 | 82/03/25 | 0139:20 | 0140:59 | 121 | 165 | 54999 | | 2 | 160, 1 | ND, EG |
| 4935 | 84 | 82/03/25 | 0307:27 | 0307:42 | 94 | 85 | | | 2 | | |
| 4936 | 84 | 82/03/25 | 0606:04 | 0608:52 | 672 | 137 | 12094 | | 3 | 160, 2 | |
| 4937 | 84 | 82/03/25 | 0639:35 | 0640:14 | 61 | 54 | | | 2 | | |
| 4938 | 84 | 82/03/25 | 0932:04 | 0932:18 | 31 | 92 | | | 2 | | |
| 4939 | 84 | 82/03/25 | 1057:05 | 1057:22 | 40 | 67 | | | 2 | | |
| 4940 | 84 | 82/03/25 | 1131:11 | 1131:27 | 47 | 66 | | | 2 | | |
| 4941 | 85 | 82/03/26 | 0546:55 | 0549:09 | 377 | 4635 | 1.42E+05 | | 12 | 160, 3 | M |
| 4942 | 85 | 82/03/26 | 2137:20 | 2137:50 | 85 | 110 | 1816 | | 2 | 160, 5 | |
| 4943 | 85 | 82/03/26 | 2143:20 | 2144:05 | 45 | 80 | | | 2 | | |
| 4944 | 86 | 82/03/27 | 0216:35 | 0217:25 | 530 | 126 | 9089 | | 2 | 160, 6 | |
| 4945 | 86 | 82/03/27 | 0301:55 | 0302:25 | 79 | 144 | 2250 | | 3 | 160, 7 | |
| 4946 | 86 | 82/03/27 | 0305:20 | 0305:30 | 45 | 64 | | | 2 | 160, 7 | |
| 4947 | 86 | 82/03/27 | 0408:30 | 0409:45 | 125 | 71 | | | 2 | | |
| 4948 | 86 | 82/03/27 | 0912:05 | 0914:25 | 373 | 121 | 6193 | | 2 | 160, 8 | |
| 4949 | 86 | 82/03/27 | 1413:45 | 1415:50 | 462 | 5029 | | | 6 | 160, 9 | SA, EN |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 4950 | 86 | 82/03/27 | 1518:00 | 1518:30 | 180 | 1121 | 18427 | | 5 | 160, 10 | M |
| 4951 | 86 | 82/03/27 | 1825:50 | 1826:50 | 85 | 56 | | | 2 | | |
| 4952 | 86 | 82/03/27 | 2303:30 | 2304:05 | 40 | 89 | | | 2 | | |
| 4953 | 87 | 82/03/28 | 0902:35 | 0904:05 | 105 | 67 | | | 2 | | |
| 4954 | 87 | 82/03/28 | 0915:55 | 0916:25 | 40 | 58 | | | 2 | | |
| 4955 | 88 | 82/03/29 | 0059:10 | 0059:35 | 60 | 97 | | | 2 | | |
| 4956 | 88 | 82/03/29 | 0331:20 | 0332:25 | 204 | 156 | 6718 | | 3 | 160, 11 | |
| 4957 | 88 | 82/03/29 | 0354:40 | 0356:10 | 272 | 73 | 3604 | | 2 | 160, 12 | |
| 4958 | 88 | 82/03/29 | 0415:25 | 0416:40 | 135 | 141 | 1774 | | 2 | 160, 13 | |
| 4959 | 88 | 82/03/29 | 0905:20 | 0907:25 | 137 | 1123 | 17372 | | 4 | 160, 14 | M |
| 4960 | 88 | 82/03/29 | 1437:49 | 1438:05 | 55 | 60 | | | 2 | | |
| 4961 | 88 | 82/03/29 | 1623:27 | 1624:08 | 83 | 68 | | | 2 | | |
| 4962 | 88 | 82/03/29 | 2109:27 | 2111:13 | 236 | 212 | 5684 | | 2 | 160, 15 | |
| 4974 | 89 | 82/03/30 | 0015:10 | 0015:25 | 25 | 96 | | | 2 | | |
| 4963 | 89 | 82/03/30 | 0220:36 | 0221:03 | 47 | 64 | | | 2 | | |
| 4964 | 89 | 82/03/30 | 0232:00 | 0233:04 | 77 | 99 | | | 2 | | |
| 4965 | 89 | 82/03/30 | 0521:10 | 0537:14 | 1326 | 18903 | 6.47E+06 | | 15 | 161, 1 | SN |
| 4966 | 89 | 82/03/30 | 0802:20 | 0803:14 | 89 | 60 | | | 2 | | |
| 4967 | 89 | 82/03/30 | 0834:10 | 0835:48 | 253 | 375 | 6721 | | 3 | 161, 2 | M |
| 4968 | 89 | 82/03/30 | 1417:32 | 1419:08 | 678 | 459 | 74222 | | 3 | 161, 4 | M |
| 4969 | 89 | 82/03/30 | 1601:20 | 1601:52 | 165 | 75 | | | 2 | | |
| 4970 | 89 | 82/03/30 | 1747:10 | 1748:05 | 70 | 65 | | | 2 | | |
| 4971 | 89 | 82/03/30 | 2049:15 | 2049:20 | 21 | 124 | 513 | | 2 | 161, 5 | |
| 4972 | 89 | 82/03/30 | 2058:20 | 2058:55 | 113 | 367 | 4076 | | 3 | 161, 6 | |
| 4973 | 89 | 82/03/30 | 2252:05 | 2252:15 | 85 | 91 | | | 2 | | |
| 4975 | 90 | 82/03/31 | 0123:05 | 0126:15 | 779 | 182 | 21777 | | 2 | 161, 7 | |
| 4976 | 90 | 82/03/31 | 0204:05 | 0204:50 | 128 | 132 | 2935 | | 2 | 161, 8 | |
| 4977 | 90 | 82/03/31 | 0312:10 | 0312:25 | 85 | 358 | 4473 | | 3 | 161, 9 | M |
| 4980 | 90 | 82/03/31 | 0611:00 | 0615:54 | 1266 | 1498 | 79573 | | 5 | 161, 12 | M |
| 4981 | 90 | 82/03/31 | 0701:55 | 0702:14 | 50 | 52 | | | 2 | | |
| 4978 | 90 | 82/03/31 | 0833:05 | 0834:25 | 354 | 3248 | 1.86E+05 | | 5 | 161, 11 | M |
| 4979 | 90 | 82/03/31 | 1146:40 | 1147:10 | 40 | 60 | | | 2 | | |
| 4982 | 90 | 82/03/31 | 1553:26 | 1553:51 | 60 | 91 | | | 2 | | |
| 4983 | 90 | 82/03/31 | 1713:36 | 1714:28 | 107 | 115 | 1043 | | 2 | 161, 13 | |
| 4984 | 90 | 82/03/31 | 2221:52 | 2225:33 | 1038 | 7677 | 5.76E+05 | | 9 | 161, 14 | M, ND |
| 4985 | 91 | 82/04/01 | 0556:06 | 0557:15 | 222 | 207 | 8469 | | 2 | 161, 15 | |
| 4986 | 91 | 82/04/01 | 1848:06 | 1848:40 | 85 | 113 | 1016 | | 2 | 161, 16 | |
| 4987 | 91 | 82/04/01 | 2349:35 | 2349:45 | 35 | 244 | 1684 | | 2 | 162, 1 | |
| 4988 | 92 | 82/04/02 | 0407:25 | 0407:30 | 55 | 60 | | | 2 | | |
| 4989 | 92 | 82/04/02 | 0901:20 | 0907:50 | 1177 | 8452 | 5.24E+05 | | 13 | 162, 2 | |
| 4990 | 92 | 82/04/02 | 1703:30 | 1704:15 | 133 | 194 | 3726 | | 5 | 162, 3 | |
| 4991 | 92 | 82/04/02 | 2347:42 | 2348:14 | 74 | 107 | 1579 | | 3 | 162, 4 | |
| 4992 | 93 | 82/04/03 | 0133:46 | 0135:02 | 148 | 59 | | | 2 | | |
| 4993 | 93 | 82/04/03 | 0242:47 | 0243:10 | 102 | 64 | | | 2 | | |
| 4994 | 93 | 82/04/03 | 0718:51 | 0719:04 | 22 | 60 | | | 2 | | |
| 4995 | 93 | 82/04/03 | 0735:43 | 0736:16 | 40 | 79 | | | 2 | | |
| 4996 | 93 | 82/04/03 | 0743:05 | 0744:38 | 303 | 107 | 3828 | | 2 | 162, 5 | |
| 4997 | 93 | 82/04/03 | 0753:37 | 0755:36 | 242 | 73 | 3572 | | 2 | 162, 5 | EN |
| 4998 | 93 | 82/04/03 | 1455:40 | 1456:15 | 288 | 57 | 5464 | | 3 | 162, 6 | |
| 4999 | 93 | 82/04/03 | 2011:45 | 2012:00 | 65 | 60 | | | 2 | | |
| 5000 | 94 | 82/04/04 | 0402:10 | 0402:40 | 59 | 111 | 2138 | | 2 | 162, 7 | |
| 5001 | 94 | 82/04/04 | 1355:45 | 1400:10 | 344 | 81 | 1703 | | 2 | 162, 8 | |
| 5002 | 94 | 82/04/04 | 1814:15 | 1814:35 | 75 | 76 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

114

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE L/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE# FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|-------------------------|--------|
| 5003 | 95 | 82/04/05 | 0845:30 | 0847:30 | 232 | 111 | 4480 | | 2 | 162, 9 | |
| 5005 | 95 | 82/04/05 | 1221:30 | 1222:30 | 125 | 63 | | | 2 | | |
| 5004 | 95 | 82/04/05 | 1616:02 | 1617:18 | 194 | 78 | | | 2 | | |
| 5006 | 98 | 82/04/08 | 1353:40 | 1354:35 | 107 | 117 | 845 | | 2 | 162, 10 | |
| 5007 | 99 | 82/04/09 | 0424:59 | 0426:25 | 132 | 59 | | | 2 | | |
| 5008 | 99 | 82/04/09 | 2219:15 | 2219:35 | 90 | 69 | | | 2 | | |
| 5009 | 99 | 82/04/09 | 2350:40 | 2351:50 | 205 | 170 | 7158 | | 2 | 162, 11 | SG |
| 5010 | 100 | 82/04/10 | 2333:45 | 2334:10 | 145 | 93 | | | 2 | | |
| 5011 | 100 | 82/04/10 | 2337:05 | 2337:40 | 65 | 58 | | | 2 | | |
| 5012 | 101 | 82/04/11 | 0331:30 | 0335:45 | 626 | 245 | 9254 | | 2 | 162, 12 | |
| 5013 | 101 | 82/04/11 | 1346:50 | 1347:35 | 297 | 106 | 4462 | | 2 | 162, 13 | |
| 5014 | 101 | 82/04/11 | 1752:00 | 1753:00 | 89 | 206 | 2643 | | 3 | 162, 14 | |
| 5015 | 101 | 82/04/11 | 1952:00 | 1952:50 | 130 | 62 | | | 2 | | |
| 5016 | 101 | 82/04/11 | 2105:15 | 2105:50 | 170 | 94 | | | 6 | | |
| 5017 | 101 | 82/04/11 | 2241:25 | 2242:40 | 180 | 64 | | | 2 | | |
| 5018 | 101 | 82/04/11 | 2329:25 | 2329:55 | 143 | 59 | | | 2 | | |
| 5019 | 102 | 82/04/12 | 1606:45 | 1608:45 | 502 | 352 | 11417 | | 4 | 162, 15 | |
| 5020 | 102 | 82/04/12 | 1820:55 | 1830:25 | 75 | 71 | | | 2 | | |
| 5021 | 102 | 82/04/12 | 2225:40 | 2226:55 | 522 | 125 | 8281 | | 5 | 162, 16 | |
| 5022 | 102 | 82/04/12 | 2315:15 | 2315:55 | 105 | 56 | | | 2 | | |
| 5023 | 103 | 82/04/13 | 0046:15 | 0048:35 | 185 | 62 | | | 3 | | |
| 5024 | 103 | 82/04/13 | 1631:24 | 1632:21 | 155 | 74 | | | 2 | | |
| 5025 | 104 | 82/04/14 | 0124:04 | 0124:08 | 30 | 56 | | | 2 | | |
| 5026 | 104 | 82/04/14 | 0248:08 | 0249:38 | 1162 | 193 | 61396 | | 5 | 163, 1 | SN |
| 5027 | 105 | 82/04/15 | 1239:46 | 1240:17 | 62 | 59 | | | 2 | | |
| 5028 | 106 | 82/04/16 | 0229:14 | 0229:46 | 67 | 57 | | | 2 | | |
| 5029 | 106 | 82/04/16 | 2120:45 | 2125:30 | 573 | 776 | 1.24E+05 | | 8 | 163, 2 | M |
| 5030 | 106 | 82/04/16 | 2343:30 | 2347:30 | 433 | 185 | 6420 | | 13 | 163, 4 | |
| 5031 | 107 | 82/04/17 | 0034:40 | 0036:45 | 170 | 69 | | | 3 | | |
| 5032 | 107 | 82/04/17 | 0104:55 | 0108:05 | 282 | 93 | 4621 | | 2 | 163, 5 | |
| 5033 | 107 | 82/04/17 | 2104:55 | 2106:20 | 592 | 176 | 27693 | | 5 | 163, 6 | SN, SG |
| 5034 | 107 | 82/04/17 | 2150:10 | 2152:20 | 300 | 76 | | | 5 | | |
| 5035 | 108 | 82/04/18 | 2049:05 | 2050:55 | 558 | 90 | 13811 | | 4 | 163, 7 | SN, AX |
| 5036 | 108 | 82/04/18 | 2133:55 | 2134:40 | 155 | 68 | | | 3 | | |
| 5037 | 108 | 82/04/18 | 2253:20 | 2254:00 | 100 | 65 | | | 2 | | |
| 5038 | 109 | 82/04/19 | 0003:01 | 0003:30 | 162 | 64 | | | 2 | | |
| 5039 | 109 | 82/04/19 | 1019:14 | 1021:40 | 351 | 659 | 42910 | | 7 | 163, 8 | M |
| 5040 | 109 | 82/04/19 | 1810:21 | 1811:28 | 812 | 3645 | 3.14E+05 | | 8 | 163, 9 | |
| 5041 | 110 | 82/04/20 | 2158:53 | 2159:17 | 183 | 71 | | | 3 | | |
| 5042 | 111 | 82/04/21 | 2007:09 | 2008:30 | 182 | 83 | | | 4 | | AX |
| 5043 | 111 | 82/04/21 | 2048:04 | 2049:10 | 173 | 56 | | | 5 | | AX |
| 5044 | 111 | 82/04/21 | 2222:43 | 2224:11 | 166 | 77 | | | 5 | | AX |
| 5045 | 112 | 82/04/22 | 1243:55 | 1251:40 | 663 | 240 | 40833 | | 3 | 163, 10 | EN |
| 5046 | 112 | 82/04/22 | 2028:21 | 2028:58 | 75 | 73 | | | 2 | | DG |
| 5047 | 113 | 82/04/23 | 0036:46 | 0036:59 | 36 | 194 | 1685 | | 4 | 163, 11 | |
| 5048 | 113 | 82/04/23 | 0724:29 | 0725:04 | 61 | 58 | | | 2 | | |
| 5049 | 113 | 82/04/23 | 0902:49 | 0903:22 | 74 | 83 | | | 2 | | |
| 5050 | 113 | 82/04/23 | 1957:25 | 1957:45 | 45 | 66 | | | 2 | | |
| 5051 | 114 | 82/04/24 | 2135:00 | 2139:30 | 578 | 68 | 4831 | | 2 | 163, 12 | |
| 5052 | 116 | 82/04/26 | 2359:16 | 0001:40 | 196 | 60 | | | 2 | | |
| * 5053 | 117 | 82/04/27 | 1057:19 | 1057:44 | 54 | 79 | | | 2 | | |
| * 5054 | 117 | 82/04/27 | 1912:20 | 1913:18 | 133 | 65 | | | 5 | | AX |
| * 5055 | 119 | 82/04/29 | 1219:15 | 1219:45 | 95 | 73 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

115

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| * 5056 | 120 | 82/04/30 | 1501:35 | 1503:00 | 140 | 69 | | | 3 | | AX |
| * 5057 | 120 | 82/04/30 | 1817:40 | 1818:00 | 165 | 72 | | | 4 | | AX |
| * 5058 | 120 | 82/04/30 | 1954:30 | 1955:50 | 369 | 72 | 3144 | | 5 | 163, 13 | AX |
| * 5059 | 120 | 82/04/30 | 2003:50 | 2007:30 | 394 | 61 | 1173 | | 2 | 163, 13 | |
| * 5060 | 121 | 82/05/01 | 1446:30 | 1447:00 | 70 | 72 | | | 2 | | AX |
| * 5061 | 121 | 82/05/01 | 1624:00 | 1625:15 | 115 | 50 | | | 2 | | AX |
| * 5062 | 121 | 82/05/01 | 1800:20 | 1801:45 | 208 | 195 | 49150 | | 5 | 163, 14 | DG |
| * 5063 | 122 | 82/05/02 | 0327:00 | 0331:25 | 422 | 75 | 2826 | | 2 | 163, 15 | |
| * 5064 | 122 | 82/05/02 | 0344:20 | 0349:10 | 587 | 91 | 3490 | | 2 | 163, 15 | |
| * 5065 | 122 | 82/05/02 | 0936:35 | 0936:50 | 70 | 66 | | | 2 | | |
| * 5066 | 122 | 82/05/02 | 1427:40 | 1429:00 | 115 | 179 | 4213 | | 6 | 163, 16 | AX |
| * 5067 | 122 | 82/05/02 | 1452:20 | 1453:00 | 75 | 55 | | | 2 | | |
| * 5068 | 122 | 82/05/02 | 1606:25 | 1607:25 | 52 | 155 | | | 6 | | AX |
| * 5069 | 122 | 82/05/02 | 1742:50 | 1744:20 | 180 | 93 | | | 6 | | AX |
| * 5070 | 122 | 82/05/02 | 1909:10 | 1921:35 | 1441 | 67 | 6785 | | 2 | 164, 1 | AX |
| * 5071 | 123 | 82/05/03 | 1111:36 | 1112:13 | 87 | 146 | 1175 | | 3 | 164, 2 | |
| * 3888 | 123 | 82/05/03 | 1551:26 | 1552:22 | 61 | 60 | | | 2 | | |
| * 5072 | 123 | 82/05/03 | 1730:22 | 1731:24 | 172 | 106 | 3055 | | 5 | 164, 3 | AX |
| * 5073 | 123 | 82/05/03 | 1900:39 | 1901:41 | 317 | 199 | 12509 | | 2 | 164, 4 | |
| * 5074 | 123 | 82/05/03 | 2030:56 | 2032:14 | 150 | 97 | | | 2 | | |
| * 5075 | 123 | 82/05/03 | 2346:45 | 2347:42 | 140 | 68 | | | 2 | | |
| * 5076 | 124 | 82/05/04 | 0006:51 | 0007:33 | 120 | 197 | 5500 | | 3 | 164, 5 | |
| * 5077 | 124 | 82/05/04 | 0256:40 | 0257:06 | 107 | 66 | | | 2 | | |
| * 5078 | 125 | 82/05/05 | 0054:29 | 0055:22 | 73 | 76 | | | 2 | | |
| * 5079 | 126 | 82/05/06 | 1658:53 | 1659:08 | 47 | 510 | 8133 | | 5 | 164, 6 | |
| * 5080 | 126 | 82/05/06 | 1952:28 | 1952:38 | 30 | 88 | | | 5 | | |
| * 5081 | 126 | 82/05/06 | 2136:37 | 2136:47 | 54 | 67 | | | 2 | | |
| * 5082 | 127 | 82/05/07 | 0210:41 | 0210:58 | 89 | 82 | | | 2 | | |
| * 5084 | 130 | 82/05/10 | 0555:20 | 0555:35 | 45 | 96 | | | 2 | | |
| * 5085 | 130 | 82/05/10 | 0604:50 | 0605:00 | 125 | 71 | | | 3 | | |
| * 5086 | 130 | 82/05/10 | 0938:20 | 0938:50 | 65 | 88 | | | 2 | | |
| * 5087 | 130 | 82/05/10 | 1311:00 | 1312:19 | 107 | 87 | | | 2 | | |
| * 5088 | 131 | 82/05/11 | 0321:07 | 0321:24 | 79 | 534 | 7597 | | 5 | 164, 7 | M1 |
| * 5089 | 131 | 82/05/11 | 0718:21 | 0718:56 | 61 | 66 | | | 2 | | |
| * 5090 | 133 | 82/05/13 | 1051:19 | 1051:28 | 131 | 57 | | | 2 | | |
| * 5091 | 133 | 82/05/13 | 1309:06 | 1311:17 | 478 | 78 | 7262 | | 3 | 164, 8 | |
| * 5092 | 136 | 82/05/16 | 0756:15 | 0756:30 | 115 | 64 | | | 13 | | |
| * 5093 | 137 | 82/05/17 | 0849:25 | 0851:10 | 292 | 86 | 5284 | | 4 | 164, 9 | |
| * 5094 | 137 | 82/05/17 | 2149:49 | 2150:13 | 46 | 60 | | | 2 | | |
| * 5095 | 137 | 82/05/17 | 2319:04 | 2320:54 | 305 | 267 | 10159 | | 3 | 164, 10 | |
| * 5096 | 138 | 82/05/18 | 0223:37 | 0224:15 | 51 | 112 | 1024 | | 4 | 164, 11 | |
| * 5098 | 138 | 82/05/18 | 1812:40 | 1813:00 | 175 | 77 | | | 2 | | |
| * 5099 | 138 | 82/05/18 | 1938:30 | 1939:05 | 90 | 74 | | | 2 | | |
| * 5100 | 138 | 82/05/18 | 2141:25 | 2142:30 | 80 | 176 | 1539 | | 2 | 164, 12 | |
| * 5101 | 139 | 82/05/19 | 0149:50 | 0151:15 | 514 | 84 | 5475 | | 2 | 164, 13 | |
| * 5097 | 139 | 82/05/19 | 0529:35 | 0529:45 | 160 | 67 | | | 2 | | |
| * 5102 | 140 | 82/05/20 | 1426:50 | 1427:40 | 805 | 121 | 13837 | | 2 | 164, 14 | SN |
| * 5103 | 141 | 82/05/21 | 0307:20 | 0308:05 | 150 | 52 | | | 2 | | |
| * 5104 | 142 | 82/05/22 | 0037:43 | 0039:12 | 585 | 310 | 37188 | | 2 | 164, 15 | |
| * 5105 | 142 | 82/05/22 | 0253:35 | 0256:55 | 343 | 94 | 5767 | | 2 | 164, 16 | |
| * 5106 | 142 | 82/05/22 | 0435:04 | 0435:37 | 51 | 50 | | | 2 | | |
| * 5107 | 142 | 82/05/22 | 0441:16 | 0441:40 | 88 | 209 | 3030 | | 2 | 165, 1 | |
| * 5108 | 142 | 82/05/22 | 2232:18 | 2232:41 | 41 | 87 | | | 2 | | |

ORIGINAL RECORDS OF POOR QUALITY

116

| HXRS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|---------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-----------|
| * 5109 | 143 | 82/05/23 | 0243:25 | 0245:17 | 680 | 359 | 24382 | | 2 | 165, 2 | |
| * 5110 | 145 | 82/05/25 | 0222:11 | 0222:19 | 23 | 115 | 474 | | 2 | 165, 3 | |
| * 5111 | 146 | 82/05/26 | 0345:05 | 0345:22 | 121 | 97 | | | 2 | | |
| * 5112 | 146 | 82/05/26 | 2116:55 | 2118:40 | 150 | 101 | | | 2 | | |
| * 5113 | 146 | 82/05/26 | 2119:35 | 2119:55 | 90 | 68 | | | 2 | | |
| * 5114 | 147 | 82/05/27 | 0507:42 | 0508:05 | 71 | 127 | 1739 | | 2 | 165, 4 | |
| * 5115 | 147 | 82/05/27 | 0549:50 | 0550:05 | 35 | 61 | | | 2 | | |
| * 5118 | 148 | 82/05/28 | 0055:08 | 0055:21 | 30 | 63 | | | 2 | | |
| * 5119 | 148 | 82/05/28 | 0303:20 | 0305:36 | 347 | 177 | 13645 | | 2 | 165, 7 | |
| * 5120 | 148 | 82/05/28 | 0327:33 | 0328:22 | 140 | 166 | 5341 | | 2 | 165, 7 | |
| * 5121 | 148 | 82/05/28 | 1456:32 | 1456:57 | 300 | 178 | 6727 | | 4 | 165, 8 | |
| * 5116 | 148 | 82/05/28 | 1603:24 | 1609:21 | 98 | 261 | 4788 | | 2 | 165, 5 | |
| * 5122 | 148 | 82/05/28 | 2215:51 | 2217:41 | 168 | 141 | 2675 | | 2 | 165, 9 | |
| * 5117 | 148 | 82/05/28 | 2229:49 | 2230:53 | 373 | 109 | 8117 | | 5 | 165, 6 | |
| * 5123 | 149 | 82/05/29 | 0518:43 | 0519:39 | 93 | 87 | | | 2 | | |
| * 5124 | 149 | 82/05/29 | 0620:42 | 0627:00 | 631 | 86 | 7898 | | 2 | 165, 10 | |
| * 5125 | 149 | 82/05/29 | 0647:53 | 0648:13 | 43 | 79 | | | 2 | | |
| * 5126 | 149 | 82/05/29 | 0759:23 | 0700:20 | 67 | 85 | | | 2 | | |
| * 5127 | 149 | 82/05/29 | 0819:43 | 0820:05 | 146 | 152 | 2724 | | 2 | 165, 11 | |
| * 5128 | 149 | 82/05/29 | 0947:19 | 0948:14 | 68 | 71 | | | 2 | | |
| * 5129 | 149 | 82/05/29 | 1002:08 | 1002:23 | 46 | 78 | | | 2 | | |
| * 6243 | 149 | 82/05/29 | 1258:05 | 1258:27 | 148 | 129 | 3518 | | 2 | 194, 11 | I |
| * 6244 | 149 | 82/05/29 | 1318:17 | 1321:08 | 184 | 95 | | | 2 | | I, EN |
| * 5130 | 149 | 82/05/29 | 1535:17 | 1535:45 | 67 | 136 | 1581 | | 2 | 165, 12 | |
| * 6245 | 149 | 82/05/29 | 1704:15 | 1704:21 | 77 | 53 | | | 2 | | I |
| * 6246 | 149 | 82/05/29 | 1718:26 | 1720:14 | 181 | 82 | 9391 | | 2 | | I |
| * 6247 | 149 | 82/05/29 | 2017:17 | 2017:42 | 159 | 95 | | | 2 | | I |
| * 6248 | 149 | 82/05/29 | 2021:44 | 2022:48 | 286 | 277 | 14943 | | 2 | 194, 12 | I |
| * 6249 | 149 | 82/05/29 | 2055:36 | 2100:27 | 786 | 407 | 36586 | | 3 | 194, 13 | I |
| * 6250 | 149 | 82/05/29 | 2149:24 | 2203:52 | 2578 | 3610 | 1.71E+06 | | 8 | 194, 14 | M1, I, SN |
| * 5131 | 150 | 82/05/30 | 0600:50 | 0602:02 | 692 | 196 | 32539 | | 2 | 165, 13 | SA |
| * 5132 | 150 | 82/05/30 | 0949:30 | 0949:40 | 69 | 326 | | | 8 | 165, 14 | ND |
| * 5133 | 150 | 82/05/30 | 2140:27 | 2142:08 | 376 | 83 | 5255 | | 5 | 165, 15 | AX |
| * 5134 | 150 | 82/05/30 | 2234:38 | 2235:46 | 101 | 98 | | | 2 | | |
| * 5135 | 151 | 82/05/31 | 0141:34 | 0143:48 | 296 | 109 | 8548 | | 6 | 165, 16 | AX |
| * 5136 | 151 | 82/05/31 | 0303:35 | 0310:10 | 691 | 781 | 41976 | | 5 | 166, 1 | M1 |
| * 5137 | 151 | 82/05/31 | 0725:21 | 0725:53 | 55 | 95 | | | 2 | | |
| * 5138 | 153 | 82/06/02 | 0058:54 | 0059:07 | 164 | 79 | | | 2 | | |
| * 5139 | 153 | 82/06/02 | 0110:23 | 0111:22 | 167 | 78 | | | 10 | | AX |
| * 5140 | 153 | 82/06/02 | 0711:38 | 0711:49 | 116 | 130 | 1408 | | 4 | 166, 2 | |
| * 5141 | 153 | 82/06/02 | 0833:45 | 0834:18 | 40 | 96 | | | 2 | | |
| * 5142 | 153 | 82/06/02 | 0901:07 | 0901:55 | 66 | 160 | 1949 | | 5 | 166, 3 | |
| * 5143 | 153 | 82/06/02 | 1213:09 | 1213:41 | 81 | 72 | | | 2 | | |
| * 5144 | 153 | 82/06/02 | 1527:27 | 1605:27 | 3062 | 85 | | | 2 | 166, 4 | IN |
| * 5145 | 153 | 82/06/02 | 1643:31 | 1643:48 | 59 | 150 | 1980 | | 2 | 166, 5 | |
| * 5146 | 153 | 82/06/02 | 1650:01 | 1650:37 | 111 | 217 | 5222 | | 2 | 166, 5 | |
| * 5147 | 153 | 82/06/02 | 1659:53 | 1659:57 | 11 | 91 | | | 2 | | |
| * 5148 | 153 | 82/06/02 | 2004:58 | 2006:24 | 137 | 63 | | | 2 | | |
| * 5149 | 153 | 82/06/02 | 2255:11 | 2255:57 | 119 | 410 | 7004 | | 4 | 166, 6 | |
| * 5150 | 154 | 82/06/03 | 0217:14 | 0217:45 | 109 | 83 | | | 2 | | |
| * 5151 | 154 | 82/06/03 | 0320:08 | 0320:44 | 90 | 199 | 4084 | | 2 | 166, 7 | |
| * 5152 | 154 | 82/06/03 | 0322:04 | 0327:38 | 806 | 3194 | 1.79E+05 | | 5 | 166, 7 | |
| * 5153 | 154 | 82/06/03 | 0336:25 | 0338:09 | 162 | 87 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| * 5154 | 154 | 82/06/03 | 0348:29 | 0348:44 | 39 | 59 | | | 2 | | |
| * 5155 | 154 | 82/06/03 | 0820:25 | 0820:44 | 38 | 74 | | | 2 | | |
| * 5156 | 154 | 82/06/03 | 0830:10 | 0837:21 | 1353 | 1411 | 2.23E+05 | | 5 | 166, 8 | M1 |
| * 5157 | 154 | 82/06/03 | 1140:32 | 1143:31 | 1449 | 213791 | 4.50E+07 | | 15 | 166, 9 | EN |
| * 5158 | 154 | 82/06/03 | 1241:43 | 1243:45 | 159 | 77 | | | 2 | | ES,AX |
| * 5159 | 154 | 82/06/03 | 1633:55 | 1634:00 | 24 | 147 | 562 | | 2 | 166, 10 | |
| * 5160 | 154 | 82/06/03 | 1735:51 | 1736:19 | 265 | 190 | 6367 | | 2 | 166, 11 | DG |
| * 5161 | 154 | 82/06/03 | 2101:47 | 2101:55 | 24 | 64 | | | 2 | | |
| * 5162 | 154 | 82/06/03 | 2128:08 | 2128:38 | 120 | 1198 | 24122 | | 7 | 166, 12 | |
| * 5163 | 155 | 82/06/04 | 0011:31 | 0031:26 | 1968 | 3590 | 1.20E+06 | | 8 | 166, 13 | EN |
| * 5164 | 155 | 82/06/04 | 0214:37 | 0215:31 | 125 | 69 | | | 2 | | AX |
| * 5165 | 155 | 82/06/04 | 0259:03 | 0259:07 | 293 | 443 | 31964 | | 4 | 166, 14 | SA |
| * 5166 | 155 | 82/06/04 | 0320:30 | 0320:37 | 14 | 69 | | | 2 | | |
| * 5167 | 155 | 82/06/04 | 0631:35 | 0631:42 | 201 | 493 | 19006 | | 4 | 166, 15 | |
| * 5168 | 155 | 82/06/04 | 0805:54 | 0806:02 | 30 | 291 | 1311 | | 13 | 166, 16 | |
| * 5169 | 155 | 82/06/04 | 0833:48 | 0834:05 | 60 | 258 | 1759 | | 3 | 167, 1 | |
| * 5170 | 155 | 82/06/04 | 0936:38 | 0936:56 | 687 | 97 | 7353 | | 2 | 167, 2 | SA |
| * 5171 | 155 | 82/06/04 | 0952:14 | 0952:23 | 172 | 120 | 2677 | | 2 | 167, 2 | |
| * 5172 | 155 | 82/06/04 | 1001:35 | 1013:27 | 751 | 109 | 8701 | | 2 | 167, 2 | |
| * 5173 | 155 | 82/06/04 | 1311:50 | 1313:07 | 169 | 251 | 7409 | | 4 | 167, 3 | |
| * 5174 | 155 | 82/06/04 | 1317:47 | 1323:55 | 381 | 213 | 8721 | | 2 | 167, 3 | EN |
| * 5175 | 155 | 82/06/04 | 1428:29 | 1428:35 | 490 | 709 | 64448 | | 2 | 167, 4 | SA |
| * 5176 | 155 | 82/06/04 | 1447:00 | 1447:18 | 33 | 1209 | 4497 | | 7 | 167, 4 | |
| * 5177 | 155 | 82/06/04 | 1534:47 | 1535:15 | 64 | 60 | | | 2 | | |
| * 5178 | 155 | 82/06/04 | 1549:45 | 1550:15 | 77 | 70 | | | 2 | | |
| * 5179 | 155 | 82/06/04 | 1731:15 | 1731:41 | 57 | 69 | | | 2 | | |
| * 5180 | 155 | 82/06/04 | 1740:05 | 1741:45 | 153 | 127 | 1787 | | 4 | 167, 5 | |
| * 5181 | 155 | 82/06/04 | 1902:34 | 1903:22 | 65 | 64 | | | 2 | | |
| * 5182 | 155 | 82/06/04 | 1912:16 | 1917:51 | 898 | 1497 | 1.44E+05 | | 13 | 167, 6 | M1 |
| * 5183 | 155 | 82/06/04 | 2024:49 | 2029:39 | 780 | 135 | 15752 | | 2 | 167, 7 | |
| * 5184 | 155 | 82/06/04 | 2217:04 | 2217:16 | 19 | 72 | | | 2 | | |
| * 5185 | 155 | 82/06/04 | 2241:46 | 2242:11 | 174 | 68 | | | 2 | | |
| * 5186 | 155 | 82/06/04 | 2246:06 | 2246:26 | 51 | 71 | | | 2 | | |
| * 5187 | 156 | 82/06/05 | 0014:44 | 0016:41 | 168 | 79 | | | 2 | | |
| * 5188 | 156 | 82/06/05 | 0027:39 | 0028:23 | 72 | 169 | 4047 | | 2 | 167, 8 | |
| * 5189 | 156 | 82/06/05 | 0124:26 | 0128:54 | 1141 | 18017 | 1.04E+06 | | 12 | 167, 9 | M1,DG |
| * 5190 | 156 | 82/06/05 | 0245:40 | 0249:11 | 732 | 470 | 55170 | | 2 | 167, 10 | |
| * 5191 | 156 | 82/06/05 | 0306:36 | 0315:13 | 1868 | 2843 | 8.32E+05 | | 3 | 167, 10 | M1,EN |
| * 5192 | 156 | 82/06/05 | 0613:31 | 0616:07 | 2120 | 20434 | 3.02E+06 | | 12 | 167, 11 | M1,EN |
| * 5193 | 156 | 82/06/05 | 0741:34 | 0741:50 | 172 | 97 | | | 2 | | |
| * 5194 | 156 | 82/06/05 | 0751:46 | 0752:36 | 90 | 70 | | | 2 | | |
| * 5195 | 156 | 82/06/05 | 0956:46 | 0957:43 | 160 | 3344 | | | 2 | 167, 12 | |
| * 5196 | 156 | 82/06/05 | 1239:36 | 1240:24 | 201 | 122 | 2959 | | 2 | 167, 13 | |
| * 5197 | 156 | 82/06/05 | 1423:49 | 1428:54 | 612 | 209 | 10794 | | 2 | 167, 14 | |
| * 5198 | 156 | 82/06/05 | 1441:37 | 1441:45 | 47 | 67 | | | 2 | | |
| * 5199 | 156 | 82/06/05 | 1519:25 | 1529:18 | 1520 | 10152 | 1.39E+06 | | 5 | 167, 15 | M1 |
| * 5200 | 156 | 82/06/05 | 1549:30 | 1549:47 | 44 | 460 | 3100 | | 3 | 167, 15 | |
| * 5201 | 156 | 82/06/05 | 1552:14 | 1553:56 | 296 | 1121 | 29249 | | 4 | 167, 15 | |
| * 5202 | 156 | 82/06/05 | 1707:41 | 1708:13 | 55 | 79 | | | 2 | | |
| * 5203 | 156 | 82/06/05 | 1720:39 | 1722:10 | 299 | 247 | 10585 | | 2 | 167, 16 | |
| * 5204 | 156 | 82/06/05 | 1727:21 | 1729:25 | 298 | 108 | 8375 | | 2 | 167, 16 | |
| * 5205 | 156 | 82/06/05 | 1737:57 | 1739:14 | 214 | 166 | 9545 | | 2 | 167, 10 | SG |
| * 5206 | 156 | 82/06/05 | 1751:04 | 1751:59 | 142 | 98 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

118

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|------------|
| * 5207 | 156 | 82/06/05 | 2004:28 | 2010:00 | 820 | 466 | 1.37E+05 | | 2 | 168, 1 | SN, DG |
| * 5208 | 156 | 82/06/05 | 2044:16 | 2049:07 | 435 | 472 | 33358 | | 2 | 168, 1 | EG |
| * 5209 | 157 | 82/06/06 | 0253:51 | 0255:04 | 175 | 68 | | | 2 | | |
| * 5210 | 157 | 82/06/06 | 0256:56 | 0257:38 | 156 | 66 | | | 2 | | |
| * 5211 | 157 | 82/06/06 | 0305:37 | 0307:40 | 382 | 368 | 30423 | | 2 | 168, 2 | |
| * 5212 | 157 | 82/06/06 | 0620:29 | 0620:52 | 90 | 84 | | | 2 | | |
| * 5213 | 157 | 82/06/06 | 0912:19 | 0912:28 | 30 | 70 | | | 2 | | |
| * 5214 | 157 | 82/06/06 | 1104:03 | 1104:56 | 173 | 142 | 3415 | | 2 | 168, 3 | |
| * 5215 | 157 | 82/06/06 | 1249:29 | 1249:51 | 81 | 79 | | | 2 | | |
| * 5216 | 157 | 82/06/06 | 1328:59 | 1332:34 | 427 | 190 | 17148 | | 2 | 168, 4 | SN, ES |
| * 5217 | 157 | 82/06/06 | 1419:41 | 1422:39 | 501 | 2681 | 2.47E+05 | | 4 | 168, 5 | M1, EN |
| * 5218 | 157 | 82/06/06 | 1506:02 | 1506:44 | 62 | 82 | | | 2 | | |
| * 5219 | 157 | 82/06/06 | 1513:18 | 1513:31 | 49 | 65 | | | 2 | | |
| * 5220 | 157 | 82/06/06 | 1636:48 | 1639:21 | 3691 | 60382 | 1.40E+07 | | 9 | 168, 6 | M1, SN, EN |
| * 5221 | 157 | 82/06/06 | 1814:06 | 1814:44 | 39 | 495 | 11829 | | 7 | 168, 7 | EG |
| * 5222 | 157 | 82/06/06 | 2158:37 | 2159:08 | 109 | 267 | 3748 | | 3 | 168, 8 | |
| * 5223 | 157 | 82/06/06 | 2205:07 | 2206:20 | 234 | 79 | 2199 | | 2 | 168, 8 | |
| * 5224 | 157 | 82/06/06 | 2302:04 | 2302:11 | 67 | 79 | | | 2 | | |
| * 5225 | 157 | 82/06/06 | 2344:20 | 2345:26 | 213 | 44 | 1294 | | 2 | 168, 9 | |
| * 5226 | 158 | 82/06/07 | 0851:04 | 0851:29 | 51 | 118 | 809 | | 2 | 168, 10 | |
| * 5227 | 158 | 82/06/07 | 1030:22 | 1031:07 | 72 | 81 | | | 2 | | |
| * 5228 | 158 | 82/06/07 | 1314:00 | 1314:03 | 191 | 81 | | | 2 | | |
| * 5229 | 158 | 82/06/07 | 1337:30 | 1344:54 | 877 | 385 | 46573 | | 2 | 168, 11 | SN |
| * 5230 | 158 | 82/06/07 | 1522:25 | 1522:36 | 37 | 59 | | | 2 | | |
| * 5231 | 158 | 82/06/07 | 2327:58 | 2331:05 | 444 | 82 | 4237 | | 3 | 168, 12 | |
| * 5232 | 159 | 82/06/08 | 0352:40 | 0353:01 | 58 | 64 | | | 2 | | |
| * 5233 | 159 | 82/06/08 | 0540:16 | 0540:33 | 32 | 87 | | | 2 | | |
| * 5234 | 159 | 82/06/08 | 0550:15 | 0550:57 | 198 | 193 | 6743 | | 2 | 168, 13 | |
| * 5235 | 159 | 82/06/08 | 1213:54 | 1214:35 | 68 | 218 | 3241 | | 4 | 168, 14 | |
| * 5236 | 159 | 82/06/08 | 2000:32 | 2002:16 | 259 | 1517 | 86927 | | 10 | 168, 15 | ND |
| * 5237 | 159 | 82/06/08 | 2008:37 | 2009:13 | 89 | 82 | | | 3 | | |
| * 5238 | 160 | 82/06/09 | 0321:55 | 0322:30 | 93 | 81 | | | 2 | | |
| * 5239 | 160 | 82/06/09 | 1029:37 | 1029:57 | 112 | 101 | 1257 | | 2 | 168, 16 | |
| * 5240 | 160 | 82/06/09 | 1134:53 | 1136:34 | 253 | 528 | 26617 | | 2 | 169, 1 | |
| * 5241 | 160 | 82/06/09 | 1200:51 | 1201:38 | 135 | 60 | | | 2 | | |
| * 5242 | 160 | 82/06/09 | 1948:08 | 1949:58 | 818 | 1037 | 1.44E+05 | | 5 | 173, 15 | M1 |
| * 5243 | 160 | 82/06/09 | 2220:52 | 2223:17 | 417 | 1032 | 72131 | | 4 | 169, 2 | |
| * 5244 | 160 | 82/06/09 | 2232:34 | 2235:49 | 295 | 278 | 6284 | | 3 | 169, 2 | |
| * 5245 | 160 | 82/06/09 | 2242:25 | 2249:20 | 1700 | 316 | 94761 | | 2 | 169, 2 | SG |
| * 5246 | 161 | 82/06/10 | 0027:12 | 0027:46 | 66 | 138 | 1514 | | 2 | 169, 3 | |
| * 5247 | 161 | 82/06/10 | 0214:09 | 0214:55 | 186 | 479 | 12533 | | 2 | 169, 4 | |
| * 5248 | 161 | 82/06/10 | 0332:04 | 0333:54 | 110 | 60 | | | 2 | | |
| * 5249 | 161 | 82/06/10 | 0504:53 | 0505:19 | 79 | 82 | | | 2 | | |
| * 5250 | 161 | 82/06/10 | 1848:38 | 1851:56 | 243 | 147 | 4027 | | 3 | 169, 5 | |
| * 5251 | 161 | 82/06/10 | 1931:06 | 1940:25 | 919 | 120 | 9784 | | 2 | 169, 6 | ND |
| * 5252 | 161 | 82/06/10 | 2249:08 | 2250:10 | 152 | 65 | | | 2 | | |
| * 5253 | 162 | 82/06/11 | 0431:50 | 0432:06 | 57 | 83 | | | 2 | | |
| * 5254 | 162 | 82/06/11 | 0639:11 | 0645:39 | 713 | 708 | 1.45E+05 | | 3 | 169, 7 | |
| * 5255 | 162 | 82/06/11 | 0940:37 | 0941:32 | 123 | 69 | | | 2 | | |
| * 5256 | 162 | 82/06/11 | 0952:50 | 0953:18 | 40 | 88 | | | 2 | | |
| * 5257 | 162 | 82/06/11 | 1108:55 | 1109:23 | 140 | 830 | 22377 | | 4 | 169, 8 | |
| * 5258 | 162 | 82/06/11 | 1130:02 | 1131:05 | 112 | 113 | 2855 | | 2 | 169, 9 | |
| * 5259 | 162 | 82/06/11 | 1723:22 | 1724:16 | 135 | 86 | | | 2 | | |

ORIGINAL PAGE 13
OF POOR QUALITY

119

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| * 5259 | 162 | 82/06/11 | 1836:23 | 1842:44 | 753 | 97 | 7973 | | 2 | 169, 10 | |
| * 5260 | 162 | 82/06/11 | 1854:38 | 1855:45 | 154 | 96 | | | 2 | | |
| * 5261 | 162 | 82/06/11 | 2009:17 | 2009:30 | 40 | 66 | | | 2 | | |
| * 5262 | 162 | 82/06/11 | 2021:11 | 2021:28 | 32 | 72 | | | 2 | | |
| * 5263 | 162 | 82/06/11 | 2054:04 | 2054:09 | 40 | 62 | | | 2 | | |
| * 5264 | 162 | 82/06/11 | 2155:33 | 2156:25 | 101 | 72 | | | 2 | | |
| * 5265 | 162 | 82/06/11 | 2203:41 | 2205:08 | 197 | 160 | 2141 | | 2 | 169, 11 | |
| * 5266 | 162 | 82/06/11 | 2225:50 | 2226:13 | 79 | 74 | | | 2 | | |
| * 5267 | 162 | 82/06/11 | 2239:23 | 2240:06 | 63 | 60 | | | 2 | | |
| * 5268 | 163 | 82/06/12 | 0143:52 | 0144:33 | 81 | 122 | 2121 | | 2 | 169, 12 | |
| * 5269 | 163 | 82/06/12 | 0149:55 | 0150:31 | 58 | 324 | 6087 | | 3 | | |
| * 5270 | 163 | 82/06/12 | 0228:11 | 0228:46 | 523 | 367 | 20536 | | 4 | 169, 13 | SN |
| * 5271 | 163 | 82/06/12 | 0245:22 | 0247:59 | 257 | 1456 | 52130 | | 8 | 169, 13 | |
| * 5272 | 163 | 82/06/12 | 0436:23 | 0436:53 | 51 | 88 | | | 2 | | |
| * 5273 | 163 | 82/06/12 | 0439:51 | 0440:05 | 148 | 84 | | | 2 | | |
| * 5274 | 163 | 82/06/12 | 0545:45 | 0545:57 | 1753 | 489 | 2.09E+05 | | 2 | 169, 14 | |
| * 5275 | 163 | 82/06/12 | 0738:45 | 0739:09 | 54 | 73 | | | 2 | | |
| * 5276 | 163 | 82/06/12 | 1037:15 | 1038:36 | 368 | 93 | 7604 | | 2 | 169, 15 | SN |
| * 5277 | 163 | 82/06/12 | 1053:22 | 1054:02 | 54 | 71 | | | 2 | | |
| * 5278 | 163 | 82/06/12 | 1101:01 | 1101:16 | 76 | 69 | | | 2 | | |
| * 5279 | 163 | 82/06/12 | 1110:24 | 1112:39 | 612 | 2174 | 1.94E+05 | | 7 | 169, 15 | |
| * 5280 | 163 | 82/06/12 | 1736:14 | 1737:39 | 279 | 647 | 30013 | | 5 | 169, 16 | |
| * 5281 | 163 | 82/06/12 | 1817:58 | 1819:34 | 1583 | 392 | 75384 | | 2 | 170, 1 | |
| * 5282 | 163 | 82/06/12 | 1846:34 | 1855:57 | 1372 | 906 | 1.78E+05 | | 5 | 170, 1 | |
| * 5283 | 163 | 82/06/12 | 2000:56 | 2001:49 | 70 | 109 | 668 | | 2 | 170, 2 | |
| * 5284 | 163 | 82/06/12 | 2015:49 | 2016:00 | 27 | 457 | 4049 | | 5 | 170, 3 | |
| * 5285 | 163 | 82/06/12 | 2026:56 | 2029:43 | 335 | 76 | 3192 | | 2 | 170, 4 | |
| * 5286 | 163 | 82/06/12 | 2042:45 | 2042:52 | 40 | 79 | | | 2 | | |
| * 5287 | 163 | 82/06/12 | 2046:46 | 2047:21 | 75 | 75 | | | 2 | 170, 5 | |
| * 5288 | 163 | 82/06/12 | 2148:10 | 2148:42 | 56 | 112 | 768 | | 2 | 170, 5 | |
| * 5289 | 163 | 82/06/12 | 2158:35 | 2159:59 | 100 | 99 | | | 2 | | |
| * 5290 | 163 | 82/06/12 | 2318:48 | 2319:19 | 81 | 129 | 1977 | | 2 | 170, 6 | |
| * 5291 | 163 | 82/06/12 | 2322:51 | 2324:41 | 167 | 121 | 2036 | | 2 | 170, 6 | |
| * 5292 | 164 | 82/06/13 | 0254:18 | 0254:23 | 17 | 187 | 340 | | 2 | 170, 7 | |
| * 5293 | 164 | 82/06/13 | 0256:54 | 0257:04 | 88 | 72 | | | 2 | | |
| * 5294 | 164 | 82/06/13 | 0259:32 | 0259:51 | 133 | 78 | | | 2 | | |
| * 5295 | 164 | 82/06/13 | 0529:06 | 0530:43 | 360 | 125 | 5717 | | 2 | 170, 8 | SN |
| * 5296 | 164 | 82/06/13 | 0733:43 | 0734:15 | 57 | 86 | | | 2 | | |
| * 5297 | 164 | 82/06/13 | 0735:32 | 0736:37 | 88 | 119 | | | 2 | 170, 9 | ND |
| * 5298 | 164 | 82/06/13 | 0927:19 | 0929:22 | 182 | 93 | | | 2 | | |
| * 5299 | 164 | 82/06/13 | 1210:51 | 1211:25 | 114 | 71 | | | 2 | | |
| * 5300 | 164 | 82/06/13 | 1400:48 | 1401:09 | 71 | 71 | | | 2 | | |
| * 5301 | 164 | 82/06/13 | 1405:46 | 1406:39 | 108 | 206 | 2674 | | 5 | 170, 10 | |
| * 5302 | 164 | 82/06/13 | 1545:07 | 1545:54 | 91 | 73 | | | 2 | | |
| * 5303 | 164 | 82/06/13 | 1652:35 | 1653:23 | 84 | 65 | | | 2 | | |
| * 5304 | 164 | 82/06/13 | 1700:43 | 1701:10 | 59 | 405 | 7612 | | 4 | 170, 11 | |
| * 5305 | 164 | 82/06/13 | 1815:30 | 1818:13 | 1105 | 2300 | 2.64E+05 | | 10 | 170, 12 | |
| * 5306 | 164 | 82/06/13 | 1941:59 | 1942:53 | 92 | 357 | 7257 | | 4 | 170, 13 | |
| * 5307 | 164 | 82/06/13 | 1945:43 | 1946:00 | 45 | 60 | | | 2 | | |
| * 5308 | 164 | 82/06/13 | 1948:16 | 1950:44 | 192 | 78 | | | 2 | | |
| * 5309 | 164 | 82/06/13 | 2003:41 | 2004:02 | 146 | 229 | 6127 | | 2 | 170, 14 | |
| * 5310 | 164 | 82/06/13 | 2119:44 | 2119:59 | 37 | 100 | | | 2 | | |
| * 5311 | 164 | 82/06/13 | 2129:45 | 2146:44 | 2146 | 2619 | 4.91E+05 | | 7 | 170, 15 | ES |

ORIGINAL COPY OF DATA

120

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| * 5312 | 164 | 82/06/13 | 2310:19 | 2335:59 | 1960 | 1359 | 2.03E+05 | | 7 | 170, 16 | ES |
| * 5313 | 165 | 82/06/14 | 0026:57 | 0030:08 | 269 | 224 | 7726 | | 4 | 171, 1 | |
| * 5314 | 165 | 82/06/14 | 0101:53 | 0104:50 | 286 | 127 | 5026 | | 2 | 171, 2 | |
| * 5315 | 165 | 82/06/14 | 0115:06 | 0116:02 | 133 | 90 | | | 2 | | |
| * 5316 | 165 | 82/06/14 | 0154:24 | 0154:24 | 106 | 95 | | | 3 | | SN |
| * 5317 | 165 | 82/06/14 | 0207:11 | 0207:29 | 102 | 127 | 1717 | | 3 | 171, 3 | |
| * 5318 | 165 | 82/06/14 | 0338:41 | 0338:45 | 88 | 261 | 2801 | | 4 | 171, 4 | |
| * 5319 | 165 | 82/06/14 | 0347:38 | 0348:28 | 60 | 85 | | | 2 | | |
| * 5320 | 165 | 82/06/14 | 0422:52 | 0423:40 | 164 | 1223 | 26319 | | 5 | 171, 5 | DG,ND |
| * 5321 | 165 | 82/06/14 | 0511:44 | 0511:57 | 571 | 103 | 8243 | | 2 | 171, 6 | SA,AX |
| * 5322 | 165 | 82/06/14 | 0559:38 | 0559:57 | 43 | 127 | 450 | | 2 | 171, 7 | |
| * 5323 | 165 | 82/06/14 | 0711:10 | 0711:22 | 40 | 92 | | | 2 | | |
| * 5324 | 165 | 82/06/14 | 0731:11 | 0731:36 | 163 | 69 | | | 2 | | |
| * 5325 | 165 | 82/06/14 | 0737:57 | 0738:21 | 52 | 85 | | | 2 | | |
| * 5326 | 165 | 82/06/14 | 0847:52 | 0848:11 | 26 | 98 | | | 2 | | |
| * 5327 | 165 | 82/06/14 | 0914:36 | 0914:54 | 28 | 590 | 3998 | | 5 | 171, 8 | |
| * 5328 | 165 | 82/06/14 | 1020:26 | 1020:34 | 80 | 86 | | | 2 | | |
| * 5329 | 165 | 82/06/14 | 1023:09 | 1023:23 | 67 | 76 | | | 2 | | |
| * 5330 | 165 | 82/06/14 | 1152:35 | 1153:28 | 127 | 77 | | | 2 | | |
| * 5331 | 165 | 82/06/14 | 1306:48 | 1309:10 | 892 | 857 | 1.17E+05 | | 7 | 171, 9 | |
| * 5332 | 165 | 82/06/14 | 1355:50 | 1356:00 | 42 | 68 | | | 2 | | |
| * 5333 | 165 | 82/06/14 | 1439:26 | 1441:45 | 508 | 410 | 37797 | | 4 | 171, 10 | |
| * 5334 | 165 | 82/06/14 | 1456:30 | 1456:38 | 25 | 196 | 835 | | 4 | 171, 10 | |
| * 5335 | 165 | 82/06/14 | 1459:01 | 1500:05 | 181 | 77 | | | 2 | | |
| * 5336 | 165 | 82/06/14 | 1523:59 | 1524:17 | 41 | 73 | | | 2 | | |
| * 5337 | 165 | 82/06/14 | 1532:26 | 1532:39 | 24 | 232 | 112 | | 3 | 171, 11 | |
| * 5338 | 165 | 82/06/14 | 1628:08 | 1628:42 | 61 | 279 | 3473 | | 3 | 171, 12 | |
| * 5339 | 165 | 82/06/14 | 1705:56 | 1706:06 | 42 | 332 | 2241 | | 5 | 171, 13 | |
| * 5340 | 165 | 82/06/14 | 1814:42 | 1817:11 | 435 | 582 | 62144 | | 3 | 171, 14 | |
| * 5341 | 165 | 82/06/14 | 1826:45 | 1828:28 | 171 | 126 | 4242 | | 2 | 171, 14 | |
| * 5342 | 165 | 82/06/14 | 1950:11 | 1951:18 | 200 | 98 | | | 5 | | AX |
| * 5343 | 165 | 82/06/14 | 2106:27 | 2113:11 | 733 | 111 | 17741 | | 2 | 171, 15 | |
| * 5344 | 166 | 82/06/15 | 0030:10 | 0030:40 | 1014 | 25304 | 8.50E+05 | | 15 | 172, 1 | M5 |
| * 5345 | 166 | 82/06/15 | 0147:01 | 0154:30 | 595 | 149 | 10310 | | 2 | 172, 2 | |
| * 5346 | 166 | 82/06/15 | 0217:46 | 0220:00 | 1319 | 3478 | 1.07E+06 | | 4 | 172, 2 | M5,EN |
| * 5347 | 166 | 82/06/15 | 0325:00 | 0326:53 | 751 | 130 | 1.67E+05 | | 2 | 172, 3 | |
| * 5348 | 166 | 82/06/15 | 0356:11 | 0356:23 | 33 | 96 | | | 2 | | |
| * 5349 | 166 | 82/06/15 | 0711:38 | 0712:10 | 89 | 87 | | | 2 | | |
| * 5350 | 166 | 82/06/15 | 0810:16 | 0813:28 | 1219 | 726 | 2.13E+05 | | 5 | 172, 4 | SA |
| * 5351 | 166 | 82/06/15 | 0844:23 | 0844:44 | 53 | 81 | | | 2 | | |
| * 5352 | 166 | 82/06/15 | 0850:35 | 0850:50 | 107 | 81 | | | 2 | | |
| * 5353 | 166 | 82/06/15 | 1444:38 | 1444:58 | 30 | 70 | | | 2 | | |
| * 5354 | 166 | 82/06/15 | 1446:27 | 1447:37 | 140 | 97 | | | 2 | | |
| * 5355 | 166 | 82/06/15 | 1451:11 | 1451:48 | 92 | 67 | | | 2 | | |
| * 5356 | 166 | 82/06/15 | 1508:18 | 1512:39 | 621 | 20609 | 1.81E+06 | | 15 | 172, 5 | |
| * 5357 | 166 | 82/06/15 | 1755:58 | 1757:00 | 168 | 64 | | | 3 | | AX |
| * 5358 | 166 | 82/06/15 | 1934:32 | 1935:37 | 144 | 71 | | | 4 | | AX |
| * 5359 | 166 | 82/06/15 | 2057:20 | 2101:50 | 765 | 782 | 1.32E+05 | | 3 | 172, 6 | |
| * 5360 | 166 | 82/06/15 | 2241:14 | 2241:36 | 57 | 85 | | | 2 | | |
| * 5361 | 167 | 82/06/16 | 0035:06 | 0035:17 | 33 | 181 | 664 | | 3 | 172, 7 | |
| * 5362 | 167 | 82/06/16 | 0043:21 | 0043:28 | 94 | 70 | | | 2 | | |
| * 5363 | 167 | 82/06/16 | 0158:11 | 0158:20 | 23 | 220 | 1291 | | 2 | 172, 8 | |
| * 5364 | 167 | 82/06/16 | 0207:29 | 0212:27 | 1016 | 9983 | 3.19E+06 | | 7 | 172, 8 | EN |

ORIGINAL PAGE IS
OF POOR QUALITY

121

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| * 5365 | 167 | 82/06/16 | 0300:47 | 0301:00 | 159 | 96 | | | 2 | | DG, SN |
| * 5366 | 167 | 82/06/16 | 0346:45 | 0346:52 | 21 | 72 | | | 2 | | |
| * 5367 | 167 | 82/06/16 | 0501:32 | 0504:07 | 217 | 139 | 6899 | | 2 | 172, 9 | |
| * 5368 | 167 | 82/06/16 | 0620:14 | 0620:20 | 72 | 116 | 1012 | | 2 | 172, 10 | |
| * 5369 | 167 | 82/06/16 | 0944:44 | 0944:56 | 24 | 61 | | | 2 | | |
| * 5370 | 167 | 82/06/16 | 1637:28 | 1639:06 | 102 | 90 | | | 2 | | EN |
| * 5371 | 167 | 82/06/16 | 2028:00 | 2032:20 | 1309 | 878 | 1.21E+05 | | 8 | 172, 11 | |
| * 5372 | 167 | 82/06/16 | 2102:48 | 2103:45 | 174 | 75 | | | 2 | | |
| * 5373 | 167 | 82/06/16 | 2335:33 | 2335:48 | 221 | 297 | 20659 | | 2 | 172, 12 | SN |
| * 5374 | 168 | 82/06/17 | 0245:27 | 0245:43 | 461 | 2228 | 1.52E+05 | | 5 | 172, 13 | SN |
| * 5375 | 168 | 82/06/17 | 1048:19 | 1051:20 | 621 | 13904 | 1.02E+06 | | 10 | 172, 14 | MS |
| * 5376 | 168 | 82/06/17 | 1101:49 | 1102:02 | 39 | 160 | 1773 | | 2 | 172, 14 | |
| * 5377 | 168 | 82/06/17 | 1105:45 | 1106:19 | 70 | 204 | 3827 | | 2 | 172, 14 | |
| * 5378 | 168 | 82/06/17 | 1114:00 | 1114:45 | 138 | 62 | | | 2 | | |
| * 5379 | 168 | 82/06/17 | 1307:18 | 1307:50 | 80 | 1170 | 13793 | | 4 | 172, 15 | MS |
| * 5380 | 168 | 82/06/17 | 1312:40 | 1313:24 | 71 | 62 | | | 2 | | |
| * 5381 | 168 | 82/06/17 | 1408:47 | 1409:09 | 38 | 66 | | | 2 | | |
| * 5382 | 168 | 82/06/17 | 1411:24 | 1411:53 | 70 | 77 | | | 2 | | |
| * 5383 | 168 | 82/06/17 | 1545:29 | 1546:58 | 108 | 64 | | | 2 | | |
| * 5384 | 168 | 82/06/17 | 1609:49 | 1610:18 | 69 | 98 | | | 2 | | |
| * 5385 | 168 | 82/06/17 | 1616:17 | 1616:31 | 35 | 73 | | | 2 | | |
| * 5386 | 168 | 82/06/17 | 1621:20 | 1622:33 | 151 | 141 | 5178 | | 2 | 172, 16 | |
| * 5387 | 168 | 82/06/17 | 1719:10 | 1719:25 | 48 | 76 | | | 2 | | |
| * 5388 | 168 | 82/06/17 | 1749:53 | 1749:59 | 17 | 76 | | | 2 | | |
| * 5389 | 168 | 82/06/17 | 1835:13 | 1835:30 | 124 | 579 | 14230 | | 5 | 173, 1 | |
| * 5390 | 168 | 82/06/17 | 1849:48 | 1851:56 | 200 | 110 | 4095 | | 2 | 173, 2 | |
| * 5391 | 168 | 82/06/17 | 1900:40 | 1901:43 | 145 | 82 | | | 2 | | |
| * 5392 | 168 | 82/06/17 | 2027:01 | 2027:22 | 46 | 277 | 1928 | | 2 | 173, 3 | MS |
| * 5394 | 169 | 82/06/18 | 0940:38 | 0948:45 | 38 | 124 | 1032 | | 2 | 173, 6 | |
| * 5395 | 169 | 82/06/18 | 0945:36 | 0947:08 | 177 | 378 | 26694 | | 4 | 173, 6 | |
| * 5396 | 169 | 82/06/18 | 1042:00 | 1042:09 | 30 | 79 | | | 2 | | |
| * 5397 | 169 | 82/06/18 | 1101:54 | 1103:52 | 548 | 1520 | 36526 | | 5 | 173, 7 | MS |
| * 5398 | 169 | 82/06/18 | 1214:17 | 1214:40 | 64 | 89 | | | 2 | | |
| * 5399 | 169 | 82/06/18 | 1659:04 | 1659:40 | 171 | 122 | 2846 | | 2 | 173, 8 | |
| * 5400 | 169 | 82/06/18 | 2136:42 | 2140:29 | 735 | 324 | 15420 | | 5 | 173, 9 | DG |
| * 5401 | 170 | 82/06/19 | 0046:36 | 0048:57 | 277 | 596 | 25363 | | 4 | 173, 10 | MS |
| * 5402 | 170 | 82/06/19 | 0107:25 | 0107:38 | 24 | 66 | | | 2 | | |
| * 5403 | 170 | 82/06/19 | 1102:59 | 1103:33 | 60 | 423 | 4593 | | 4 | 173, 12 | |
| * 5432 | 170 | 82/06/19 | 1324:41 | 1325:30 | 120 | 68 | | | 2 | | |
| * 5433 | 170 | 82/06/19 | 1332:05 | 1333:07 | 136 | 100 | | | 4 | | |
| * 5404 | 170 | 82/06/19 | 1510:36 | 1511:58 | 153 | 94 | | | 4 | | |
| * 5405 | 170 | 82/06/19 | 1517:01 | 1518:31 | 134 | 67 | | | 2 | | |
| * 5406 | 170 | 82/06/19 | 1526:02 | 1526:16 | 37 | 82 | | | 2 | | |
| * 5407 | 170 | 82/06/19 | 1641:45 | 1642:43 | 165 | 70 | | | 2 | | |
| * 5408 | 170 | 82/06/19 | 1716:47 | 1717:30 | 132 | 965 | 16631 | | 4 | 173, 13 | ES |
| * 5409 | 170 | 82/06/19 | 1816:13 | 1816:57 | 91 | 191 | 2503 | | 3 | 173, 14 | |
| * 5411 | 171 | 82/06/20 | 0024:17 | 0024:54 | 195 | 129 | 3532 | | 2 | 173, 16 | |
| * 5412 | 171 | 82/06/20 | 0046:50 | 0047:28 | 58 | 71 | | | 2 | | |
| * 5413 | 171 | 82/06/20 | 0105:15 | 0105:33 | 39 | 69 | | | 2 | | |
| * 5414 | 171 | 82/06/20 | 0112:55 | 0113:32 | 411 | 13670 | 1.48E+05 | | 10 | 174, 1 | MS |
| * 5415 | 171 | 82/06/20 | 0159:22 | 0201:10 | 1533 | 979 | 1.77E+05 | | 3 | 174, 2 | SN, DG |
| * 5416 | 171 | 82/06/20 | 0252:10 | 0253:00 | 137 | 114 | 2990 | | 2 | 174, 2 | |
| * 5417 | 171 | 82/06/20 | 0359:33 | 0403:06 | 330 | 5750 | 1.04E+05 | | 8 | 174, 3 | MS |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| * 5418 | 171 | 82/06/20 | 0533:25 | 0533:56 | 16 | 73 | | | 2 | | |
| * 5419 | 171 | 82/06/20 | 1159:40 | 1200:15 | 588 | 6122 | 1.27E+05 | | 8 | 174, 5 | |
| * 5420 | 171 | 82/06/20 | 1314:49 | 1315:42 | 110 | 70 | | | 4 | | |
| * 5421 | 171 | 82/06/20 | 1453:19 | 1454:16 | 156 | 100 | | | 4 | | |
| * 5422 | 171 | 82/06/20 | 1458:46 | 1459:15 | 80 | 70 | | | 2 | | |
| * 5423 | 171 | 82/06/20 | 1529:29 | 1532:32 | 412 | 98 | 4546 | | 4 | 174, 6 | AX |
| * 5424 | 171 | 82/06/20 | 1632:30 | 1632:37 | 154 | 67 | | | 2 | | |
| * 5425 | 171 | 82/06/20 | 1936:44 | 1637:00 | 38 | 79 | | | 2 | | |
| * 5426 | 171 | 82/06/20 | 2233:52 | 2234:12 | 775 | 216 | 24245 | | 2 | 174, 7 | |
| * 5427 | 172 | 82/06/21 | 0234:25 | 0234:44 | 55 | 64 | | | 2 | | |
| * 5428 | 172 | 82/06/21 | 0238:26 | 0239:53 | 112 | 60 | | | 2 | | |
| * 5429 | 172 | 82/06/21 | 0324:26 | 0325:31 | 173 | 88 | | | 2 | | |
| * 5430 | 172 | 82/06/21 | 0348:22 | 0351:13 | 279 | 163 | 7716 | | 2 | 174, 8 | |
| * 5431 | 172 | 82/06/21 | 0355:26 | 0355:43 | 159 | 73 | | | 2 | | |
| * 5434 | 172 | 82/06/21 | 1115:56 | 1116:19 | 679 | 114 | | | 2 | 174, 9 | SG, EG |
| * 5435 | 172 | 82/06/21 | 1610:11 | 1614:53 | 505 | 794 | 1.15E+05 | | 5 | 174, 10 | SG |
| * 5436 | 172 | 82/06/21 | 1752:20 | 1754:53 | 187 | 84 | | | 2 | | |
| * 5437 | 172 | 82/06/21 | 1800:21 | 1800:40 | 60 | 81 | | | 2 | | DG |
| * 5438 | 172 | 82/06/21 | 1808:21 | 1808:32 | 57 | 98 | | | 2 | | |
| * 5439 | 173 | 82/06/22 | 1421:28 | 1433:29 | 1243 | 360 | 1.09E+05 | | 2 | 174, 11 | EG |
| 5440 | 173 | 82/06/22 | 1723:22 | 1724:12 | 83 | 88 | | | 2 | | |
| 5441 | 174 | 82/06/23 | 0005:13 | 0005:33 | 330 | 1708 | 70548 | | 4 | 174, 12 | MS |
| 5442 | 174 | 82/06/23 | 0328:36 | 0329:30 | 124 | 87 | | | 2 | | |
| 5443 | 174 | 82/06/23 | 0338:18 | 0338:55 | 286 | 182 | 5611 | | 2 | 174, 13 | |
| 5444 | 174 | 82/06/23 | 0443:26 | 0443:30 | 39 | 75 | | | 2 | | |
| 5445 | 174 | 82/06/23 | 0634:42 | 0652:42 | 1284 | 414 | 6.10E+05 | | 2 | 174, 14 | ND |
| 5446 | 174 | 82/06/23 | 1003:24 | 1003:42 | 53 | 286 | 2955 | | 4 | 174, 15 | |
| 5447 | 174 | 82/06/23 | 1046:00 | 1046:11 | 210 | 27 | 1484 | | 4 | 174, 16 | |
| 5448 | 174 | 82/06/23 | 1116:24 | 1116:51 | 71 | 67 | | | 2 | | |
| 5449 | 174 | 82/06/23 | 1402:33 | 1404:13 | 478 | 100 | 9331 | | 10 | 175, 1 | AX |
| 5450 | 174 | 82/06/23 | 1433:53 | 1434:03 | 35 | 99 | | | 2 | | |
| 5451 | 174 | 82/06/23 | 1545:39 | 1546:23 | 154 | 78 | | | 2 | | |
| 5452 | 174 | 82/06/23 | 1549:37 | 1549:44 | 14 | 72 | | | 2 | | |
| 5453 | 174 | 82/06/23 | 1716:04 | 1716:18 | 45 | 113 | 960 | | 2 | 175, 2 | |
| 5454 | 174 | 82/06/23 | 1856:40 | 1857:25 | 89 | 367 | 7580 | | 5 | 175, 3 | |
| 5455 | 174 | 82/06/23 | 1902:43 | 1905:52 | 632 | 268 | 41232 | | 2 | 175, 3 | |
| 5456 | 174 | 82/06/23 | 2052:25 | 2025:45 | 92 | 75 | | | 2 | | |
| 5457 | 174 | 82/06/23 | 2329:03 | 2331:10 | 557 | 1041 | 98505 | | 8 | 175, 4 | MS |
| 5458 | 175 | 82/06/24 | 0232:31 | 0232:51 | 111 | 100 | | | 2 | | |
| 5459 | 175 | 82/06/24 | 0303:26 | 0303:43 | 70 | 78 | | | 2 | | |
| 5460 | 175 | 82/06/24 | 0307:39 | 0308:15 | 102 | 105 | 1376 | | 2 | 175, 6 | |
| 5461 | 175 | 82/06/24 | 0744:27 | 0745:54 | 102 | 69 | | | 2 | | |
| 5462 | 175 | 82/06/24 | 1352:36 | 1353:35 | 121 | 74 | | | 2 | | |
| 5463 | 175 | 82/06/24 | 1839:26 | 1840:14 | 86 | 71 | | | 2 | | |
| 5464 | 175 | 82/06/24 | 2155:45 | 2156:13 | 40 | 72 | | | 2 | | |
| 5465 | 175 | 82/06/24 | 2304:28 | 2310:05 | 998 | 115 | 10271 | | 2 | 175, 7 | |
| 5466 | 176 | 82/06/25 | 0530:12 | 0531:14 | 163 | 109 | 4164 | | 2 | 175, 8 | |
| 5467 | 176 | 82/06/25 | 0543:11 | 0535:10 | 119 | 187 | 2417 | | 3 | 175, 8 | |
| 5468 | 176 | 82/06/25 | 1041:33 | 1042:16 | 80 | 60 | | | 2 | | |
| 5469 | 176 | 82/06/25 | 1045:41 | 1046:34 | 284 | 463 | 28711 | | 5 | 175, 9 | |
| 5470 | 176 | 82/06/25 | 1655:26 | 1656:11 | 104 | 77 | | | 2 | | |
| 5471 | 176 | 82/06/25 | 1943:28 | 1944:57 | 162 | 1276 | 59937 | | 5 | 175, 10 | |
| 5472 | 176 | 82/06/25 | 2131:08 | 2134:18 | 1537 | 7791 | 1.27E+06 | | 13 | 175, 11 | MS |

ORIGINAL PAGE 13
OF POOR QUALITY.

123

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 5473 | 177 | 82/06/26 | 0042:57 | 0046:22 | 1821 | 8678 | 2.48E+06 | | 10 | 175, 12 | M5 |
| 5474 | 177 | 82/06/26 | 0205:49 | 0208:12 | 190 | 385 | 23914 | | 5 | 175, 13 | ND, DG |
| 5475 | 177 | 82/06/26 | 1453:06 | 1455:18 | 402 | 87 | 5682 | | 4 | 175, 14 | AX |
| 5476 | 177 | 82/06/26 | 1925:00 | 1926:24 | 1062 | 263 | 66899 | | 2 | 175, 15 | SN |
| 5477 | 178 | 82/06/27 | 0711:27 | 0711:44 | 74 | 92 | | | 2 | | |
| 5478 | 186 | 82/07/05 | 0609:41 | 0610:33 | 65 | 55 | | | 13 | | |
| 5479 | 186 | 82/07/05 | 2223:49 | 2224:04 | 37 | 66 | | | 2 | | |
| 5481 | 190 | 82/07/09 | 0856:11 | 0856:28 | 35 | 166 | | | 2 | | |
| 5482 | 190 | 82/07/09 | 1347:57 | 1348:13 | 40 | 102 | 709 | | 2 | 176, 1 | |
| 5483 | 190 | 82/07/09 | 1528:36 | 1530:16 | 309 | 262 | 13625 | | 2 | 176, 2 | |
| 5484 | 190 | 82/07/09 | 1617:53 | 1619:24 | 380 | 574 | 36988 | | 3 | 176, 3 | |
| 5485 | 190 | 82/07/09 | 1703:34 | 1703:58 | 63 | 85 | | | 2 | | |
| 5486 | 190 | 82/07/09 | 1838:42 | 1839:46 | 391 | 139 | 7678 | | 2 | 176, 4 | |
| 5487 | 190 | 82/07/09 | 2013:22 | 2017:40 | 616 | 451 | 20394 | | 4 | 176, 5 | SG |
| 5488 | 190 | 82/07/09 | 2052:17 | 2052:44 | 186 | 161 | 3279 | | 2 | 176, 6 | |
| 5489 | 190 | 82/07/09 | 2056:34 | 2057:08 | 117 | 96 | | | 2 | 176, 6 | |
| 5490 | 190 | 82/07/09 | 2105:38 | 2107:01 | 529 | 57078 | 1.19E+06 | | 15 | 176, 6 | M5 |
| 5491 | 190 | 82/07/09 | 2116:39 | 2117:44 | 103 | 74 | | | 2 | 176, 6 | |
| 5492 | 190 | 82/07/09 | 2120:12 | 2120:43 | 106 | 60 | | | 2 | 176, 6 | |
| 5493 | 190 | 82/07/09 | 2128:25 | 2130:39 | 183 | 96 | | | 2 | 176, 6 | |
| 5494 | 190 | 82/07/09 | 2148:26 | 2148:53 | 77 | 188 | 2949 | | 2 | 176, 6 | |
| 5495 | 190 | 82/07/09 | 2239:10 | 2251:21 | 1064 | 1283 | 1.64E+05 | | 9 | 176, 7 | M5 |
| 5496 | 190 | 82/07/09 | 2303:01 | 2304:09 | 285 | 1200 | 58186 | | 4 | 176, 7 | |
| 5497 | 190 | 82/07/09 | 2324:00 | 2324:17 | 45 | 56 | | | 2 | 176, 7 | |
| 5498 | 190 | 82/07/09 | 2326:27 | 2326:44 | 46 | 106 | 638 | | 2 | 176, 7 | |
| 5499 | 191 | 82/07/10 | 0018:40 | 0018:13 | 73 | 160 | | | 2 | | |
| 5500 | 191 | 82/07/10 | 0022:42 | 0029:05 | 666 | 163 | 9621 | | 2 | 176, 8 | |
| 5501 | 191 | 82/07/10 | 0035:56 | 0036:55 | 180 | 524 | 11540 | | 3 | 176, 8 | |
| 5502 | 191 | 82/07/10 | 0135:22 | 0138:09 | 959 | 1145 | 2.11E+05 | | 8 | 176, 9 | M5 |
| 5503 | 191 | 82/07/10 | 0158:04 | 0200:21 | 596 | 5979 | 4.00E+05 | | 8 | 176, 9 | |
| 5504 | 191 | 82/07/10 | 0315:50 | 0317:03 | 340 | 6260 | 81619 | | 11 | 176, 11 | M5 |
| 5505 | 191 | 82/07/10 | 0407:46 | 0408:26 | 315 | 1369 | 31064 | | 8 | 176, 12 | |
| 5506 | 191 | 82/07/10 | 0446:52 | 0447:03 | 21 | 73 | | | 2 | | |
| 5507 | 191 | 82/07/10 | 0517:04 | 0518:25 | 121 | 73 | | | 2 | | |
| 5508 | 191 | 82/07/10 | 0534:59 | 0535:34 | 124 | 62 | | | 2 | | |
| 5509 | 191 | 82/07/10 | 0547:52 | 0548:01 | 104 | 95 | | | 2 | | ND |
| 5510 | 191 | 82/07/10 | 1006:16 | 1015:48 | 703 | 3360 | 1.35E+05 | | 4 | 176, 13 | M5, SA |
| 5511 | 191 | 82/07/10 | 1020:43 | 1022:07 | 99 | 113 | 1254 | | 2 | 176, 13 | |
| 5512 | 191 | 82/07/10 | 1108:04 | 1108:11 | 28 | 100 | | | 2 | | |
| 5513 | 191 | 82/07/10 | 1111:37 | 1111:45 | 14 | 76 | | | 2 | | |
| 5514 | 191 | 82/07/10 | 1146:57 | 1147:39 | 67 | 123 | 1052 | | 2 | 176, 14 | |
| 5515 | 191 | 82/07/10 | 1150:29 | 1150:50 | 66 | 61 | | | 2 | 176, 14 | |
| 5516 | 191 | 82/07/10 | 1153:23 | 1156:33 | 190 | 70 | | | 2 | 176, 14 | |
| 5517 | 191 | 82/07/10 | 1158:38 | 1200:05 | 263 | 603 | 17255 | | 4 | 176, 14 | |
| 5518 | 191 | 82/07/10 | 1241:04 | 1241:41 | 74 | 71 | | | 2 | | |
| 5519 | 191 | 82/07/10 | 1340:53 | 1341:12 | 31 | 172 | 422 | | 2 | 176, 15 | |
| 5520 | 191 | 82/07/10 | 1504:04 | 1504:36 | 85 | 107 | 584 | | 2 | 176, 16 | |
| 5521 | 191 | 82/07/10 | 1509:24 | 1509:49 | 111 | 303 | 7594 | | 2 | 176, 16 | |
| 5522 | 191 | 82/07/10 | 1603:53 | 1604:11 | 155 | 134 | 3595 | | 3 | 177, 1 | |
| 5523 | 191 | 82/07/10 | 1611:24 | 1612:05 | 137 | 151 | 2766 | | 2 | 177, 1 | |
| 5524 | 191 | 82/07/10 | 1641:32 | 1643:18 | 896 | 789 | 70307 | | 5 | 177, 2 | SA, EN |
| 5525 | 191 | 82/07/10 | 1823:45 | 1824:08 | 34 | 97 | | | 2 | | |
| 5526 | 191 | 82/07/10 | 1901:19 | 1902:06 | 200 | 77 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 5527 | 191 | 82/07/10 | 1905:56 | 1906:17 | 35 | 66 | | | 2 | | |
| 5528 | 191 | 82/07/10 | 2001:47 | 2002:32 | 249 | 354 | 15139 | | 2 | 177, 3 | |
| 5529 | 191 | 82/07/10 | 2212:10 | 2215:25 | 560 | 115 | 11056 | | 2 | 177, 4 | |
| 5530 | 191 | 82/07/10 | 2237:26 | 2239:25 | 266 | 129 | 2578 | | 2 | 177, 4 | |
| 5531 | 191 | 82/07/10 | 2244:38 | 2248:38 | 316 | 133 | 3135 | | 2 | 177, 4 | |
| 5532 | 191 | 82/07/10 | 2252:07 | 2252:26 | 103 | 67 | | | 2 | | |
| 5533 | 191 | 82/07/10 | 2258:52 | 2259:57 | 120 | 66 | | | 2 | | |
| 5534 | 191 | 82/07/10 | 2313:06 | 2313:40 | 93 | 69 | | | 2 | | |
| 5535 | 192 | 82/07/11 | 0008:15 | 0008:32 | 37 | 69 | | | 2 | | |
| 5536 | 192 | 82/07/11 | 0012:53 | 0013:25 | 44 | 69 | | | 2 | | |
| 5537 | 192 | 82/07/11 | 0125:28 | 0131:36 | 442 | 128 | 4604 | | 5 | 177, 5 | |
| 5538 | 192 | 82/07/11 | 0205:40 | 0207:42 | 1053 | 550 | 33917 | | 7 | 177, 6 | |
| 5539 | 192 | 82/07/11 | 0327:58 | 0328:17 | 52 | 270 | 4583 | | 3 | 177, 7 | |
| 5540 | 192 | 82/07/11 | 0337:38 | 0338:09 | 146 | 824 | 12112 | | 4 | 177, 8 | |
| 5541 | 192 | 82/07/11 | 0341:01 | 0341:17 | 33 | 97 | | | 2 | | |
| 5542 | 192 | 82/07/11 | 0443:31 | 0445:21 | 255 | 573 | 25097 | | 3 | 177, 9 | |
| 5543 | 192 | 82/07/11 | 0527:42 | 0530:23 | 523 | 109 | 11249 | | 2 | 177, 10 | |
| 5544 | 192 | 82/07/11 | 0614:58 | 0621:09 | 533 | 233 | 14951 | | 5 | 177, 11 | |
| 5545 | 192 | 82/07/11 | 0636:35 | 0637:12 | 388 | 974 | 29810 | | 10 | 177, 11 | |
| 5546 | 192 | 82/07/11 | 0700:21 | 0700:47 | 211 | 302 | 5101 | | 5 | 177, 12 | |
| 5547 | 192 | 82/07/11 | 0708:06 | 0708:52 | 108 | 58 | | | 2 | | |
| 5548 | 192 | 82/07/11 | 0810:48 | 0812:59 | 436 | 698 | 66284 | | 7 | 177, 13 | |
| 5549 | 192 | 82/07/11 | 0823:51 | 0824:26 | 95 | 70 | | | 2 | | |
| 5550 | 192 | 82/07/11 | 0826:56 | 0827:39 | 94 | 88 | | | 2 | | |
| 5551 | 192 | 82/07/11 | 0953:39 | 0955:03 | 196 | 183 | 7033 | | 2 | 177, 14 | |
| 5552 | 192 | 82/07/11 | 1326:21 | 1326:34 | 18 | 63 | | | 2 | | |
| 5553 | 192 | 82/07/11 | 1401:29 | 1402:01 | 397 | 5290 | 1.99E+05 | | 7 | 177, 15 | M5, SN |
| 5554 | 192 | 82/07/11 | 1413:08 | 1413:36 | 47 | 90 | | | 2 | 177, 15 | |
| 5555 | 192 | 82/07/11 | 1447:42 | 1448:01 | 41 | 69 | | | 2 | | |
| 5556 | 192 | 82/07/11 | 1448:55 | 1449:21 | 54 | 91 | | | 3 | | |
| 5557 | 192 | 82/07/11 | 1452:37 | 1453:23 | 88 | 80 | | | 2 | | |
| 5558 | 192 | 82/07/11 | 1454:29 | 1455:39 | 149 | 75 | | | 2 | | |
| 5559 | 192 | 82/07/11 | 1630:20 | 1631:04 | 69 | 71 | | | 2 | | |
| 5560 | 192 | 82/07/11 | 1641:04 | 1641:19 | 39 | 71 | | | 2 | | |
| 5561 | 192 | 82/07/11 | 1711:49 | 1712:13 | 93 | 120 | 2748 | | 2 | 178, 2 | |
| 5562 | 192 | 82/07/11 | 1814:05 | 1814:58 | 152 | 108 | 3327 | | 3 | 178, 3 | |
| 5563 | 192 | 82/07/11 | 1848:46 | 1852:45 | 538 | 241 | 26895 | | 2 | 178, 4 | |
| 5564 | 192 | 82/07/11 | 1908:50 | 1910:44 | 281 | 202 | 8130 | | 3 | 178, 4 | |
| 5566 | 192 | 82/07/11 | 2158:33 | 2208:25 | 665 | 130 | 10865 | | 2 | 178, 5 | |
| 5565 | 192 | 82/07/11 | 2158:40 | 2159:21 | 62 | 58 | | | 2 | | |
| 5567 | 192 | 82/07/11 | 2211:07 | 2212:43 | 239 | 316 | 10887 | | 2 | 178, 5 | |
| 5568 | 192 | 82/07/11 | 2230:24 | 2231:08 | 160 | 201 | 4329 | | 3 | 178, 6 | |
| 5569 | 192 | 82/07/11 | 2331:31 | 2332:23 | 1527 | 220 | 40511 | | 2 | 178, 7 | SN |
| 5570 | 193 | 82/07/12 | 0015:40 | 0016:29 | 100 | 57 | | | 2 | | |
| 5571 | 193 | 82/07/12 | 0025:39 | 0026:35 | 94 | 71 | | | 2 | | |
| 5572 | 193 | 82/07/12 | 0113:30 | 0114:18 | 90 | 59 | | | 2 | | |
| 5573 | 193 | 82/07/12 | 0246:09 | 0246:28 | 55 | 62 | | | 2 | | |
| 5574 | 193 | 82/07/12 | 0253:14 | 0253:57 | 104 | 70 | | | 2 | | |
| 5575 | 193 | 82/07/12 | 0310:05 | 0310:34 | 762 | 1686 | 1.50E+05 | | 5 | 178, 8 | M5 |
| 5576 | 193 | 82/07/12 | 0607:06 | 0621:38 | 3000 | 439 | 1.83E+05 | | 2 | 178, 9 | SA |
| 5577 | 193 | 82/07/12 | 0755:27 | 0755:45 | 52 | 59 | | | 2 | | |
| 5578 | 193 | 82/07/12 | 0757:35 | 0758:21 | 71 | 68 | | | 2 | | |
| 5579 | 193 | 82/07/12 | 0813:37 | 0817:51 | 542 | 162 | 1709 | | 3 | 178, 10 | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|----------|
| 5580 | 193 | 82/07/12 | 0932:36 | 0945:57 | 7741 | 58007 | 4.10E+07 | | 13 | 178, 11 | MS,SA,EN |
| 5581 | 193 | 82/07/12 | 1212:12 | 1212:37 | 70 | 66 | | | 2 | | |
| 5582 | 193 | 82/07/12 | 1444:15 | 1444:45 | 112 | 157 | 1960 | | 2 | 178, 12 | |
| 5583 | 193 | 82/07/12 | 1530:56 | 1531:17 | 42 | 929 | 9804 | | 7 | 178, 13 | MS |
| 5584 | 193 | 82/07/12 | 2028:27 | 2029:34 | 182 | 74 | | | 2 | | |
| 5585 | 193 | 82/07/12 | 2034:35 | 2035:33 | 162 | 90 | | | 2 | | |
| 5586 | 193 | 82/07/12 | 2039:52 | 2041:36 | 1050 | 2195 | 1.82E+05 | | 8 | 178, 15 | MS |
| 5587 | 193 | 82/07/12 | 2224:36 | 2225:21 | 114 | 29 | | | 2 | | |
| 5588 | 193 | 82/07/12 | 2231:11 | 2231:22 | 19 | 106 | 293 | | 2 | | |
| 5589 | 193 | 82/07/12 | 2345:18 | 2345:49 | 113 | 121 | 2615 | | 2 | 178, 16 | |
| 5590 | 194 | 82/07/13 | 0103:57 | 0104:25 | 64 | 86 | | | 2 | | |
| 5596 | 194 | 82/07/13 | 113:02 | 1115:30 | 203 | 136 | 48739 | | 2 | 179, 4 | NO,DO |
| 5591 | 194 | 82/07/13 | 0227:09 | 0229:03 | 676 | 155 | 14716 | | 2 | 179, 1 | |
| 5592 | 194 | 82/07/13 | 0259:31 | 0300:05 | 121 | 113 | 1619 | | 2 | 179, 1 | |
| 5593 | 194 | 82/07/13 | 0638:00 | 0638:12 | 25 | 210 | 848 | | 4 | 179, 2 | |
| 5594 | 194 | 82/07/13 | 0944:52 | 0948:09 | 387 | 130 | 11429 | | 2 | 179, 3 | EN |
| 5595 | 194 | 82/07/13 | 1105:28 | 1105:29 | 42 | 61 | | | 2 | | |
| 5597 | 194 | 82/07/13 | 1412:14 | 1412:14 | 985 | 171 | 21375 | | 2 | 179, 5 | SA |
| 5598 | 194 | 82/07/13 | 1515:50 | 1516:03 | 33 | 77 | | | 2 | | |
| 5599 | 194 | 82/07/13 | 1642:53 | 1643:08 | 42 | 54 | | | 2 | | |
| 5600 | 194 | 82/07/13 | 2144:29 | 2145:00 | 42 | 76 | | | 2 | | |
| 5601 | 194 | 82/07/13 | 2145:50 | 2146:25 | 142 | 64 | | | 2 | | |
| 5602 | 195 | 82/07/14 | 1230:09 | 1231:27 | 116 | 125 | 3469 | | 2 | 179, 6 | |
| 5603 | 195 | 82/07/14 | 1317:35 | 1318:28 | 143 | 73 | | | 2 | | |
| 5604 | 195 | 82/07/14 | 1323:11 | 1324:22 | 175 | 72 | | | 2 | | EN |
| 5605 | 195 | 82/07/14 | 1404:30 | 1405:25 | 170 | 89 | | | 2 | | |
| 5606 | 195 | 82/07/14 | 1453:12 | 1459:54 | 833 | 479 | 1.57E+05 | | 2 | 179, 7 | SN,ES |
| 5607 | 195 | 82/07/14 | 1543:39 | 1544:11 | 63 | 127 | 1632 | | 2 | 179, 7 | |
| 5608 | 195 | 82/07/14 | 1551:30 | 1552:12 | 48 | 79 | | | 2 | | |
| 5609 | 195 | 82/07/14 | 1714:58 | 1715:31 | 196 | 59 | | | 2 | | |
| 5610 | 195 | 82/07/14 | 1721:53 | 1722:23 | 124 | 87 | | | 2 | | |
| 5611 | 195 | 82/07/14 | 1727:34 | 1730:13 | 180 | 134 | 6383 | | 2 | 179, 8 | EN |
| 5612 | 195 | 82/07/14 | 1847:32 | 1847:41 | 57 | 94 | | | 2 | | |
| 5613 | 195 | 82/07/14 | 1955:22 | 1956:08 | 56 | 61 | | | 2 | | |
| 5614 | 195 | 82/07/14 | 2007:43 | 2008:04 | 34 | 97 | | | 2 | | |
| 5615 | 195 | 82/07/14 | 2008:37 | 2009:15 | 109 | 243 | 4199 | | 3 | 179, 9 | |
| 5616 | 195 | 82/07/14 | 2017:37 | 2018:30 | 120 | 69 | | | 5 | | AX |
| 5617 | 195 | 82/07/14 | 2121:10 | 2121:23 | 74 | 69 | | | 5 | | |
| 5618 | 195 | 82/07/14 | 2128:42 | 2129:14 | 48 | 68 | | | 2 | | |
| 5619 | 195 | 82/07/14 | 2133:32 | 2133:41 | 20 | 231 | 594 | | 4 | 179, 10 | |
| 5620 | 196 | 82/07/15 | 0052:35 | 0053:24 | 71 | 77 | | | 2 | | |
| 5621 | 196 | 82/07/15 | 0211:15 | 0211:20 | 108 | 139 | 1297 | | 3 | 179, 11 | |
| 5622 | 196 | 82/07/15 | 0218:09 | 0223:29 | 2658 | 623 | 3.18E+05 | | 3 | 179, 11 | EN,AX |
| 5623 | 196 | 82/07/15 | 0333:03 | 0338:27 | 1940 | 490 | 73485 | | 4 | 179, 12 | AX |
| 5624 | 196 | 82/07/15 | 0409:55 | 0416:18 | 600 | 92 | 10135 | | 2 | 179, 12 | |
| 5625 | 196 | 82/07/15 | 0542:48 | 0544:02 | 86 | 76 | | | 2 | | |
| 5626 | 196 | 82/07/15 | 0600:35 | 0600:53 | 27 | 58 | | | 2 | | |
| 5627 | 196 | 82/07/15 | 0917:18 | 0919:12 | 173 | 82 | | | 2 | | |
| 5628 | 196 | 82/07/15 | 1228:43 | 1229:49 | 78 | 70 | | | 2 | | |
| 5629 | 196 | 82/07/15 | 1620:06 | 1620:53 | 59 | 87 | | | 2 | | |
| 5630 | 196 | 82/07/15 | 1754:09 | 1756:35 | 152 | 61 | | | 2 | | |
| 5631 | 196 | 82/07/15 | 1840:26 | 1840:40 | 97 | 129 | 3504 | | 2 | 179, 13 | |
| 5632 | 196 | 82/07/15 | 2139:52 | 2140:40 | 179 | 62 | | | 4 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

126

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 5633 | 197 | 82/07/16 | 0022:38 | 0024:16 | 1072 | 554 | 1.24E+05 | | 3 | 179, 14 | |
| 5634 | 197 | 82/07/16 | 0320:46 | 0322:13 | 501 | 2178 | 51983 | | 7 | 179, 15 | M5, SA |
| 5635 | 197 | 82/07/16 | 0401:54 | 0402:31 | 68 | 82 | | | 2 | | |
| 5636 | 197 | 82/07/16 | 0653:34 | 0654:28 | 141 | 71 | | | 2 | | |
| 5637 | 197 | 82/07/16 | 0856:22 | 0857:00 | 67 | 57 | | | 2 | | |
| 5638 | 197 | 82/07/16 | 0858:31 | 0901:58 | 352 | 173 | 22005 | | 2 | 179, 16 | |
| 5639 | 197 | 82/07/16 | 2220:06 | 2222:55 | 799 | 1968 | 3.67E+05 | | 9 | 180, 1 | M5 |
| 5640 | 197 | 82/07/16 | 2352:47 | 2354:28 | 1292 | | 1.96E+05 | | 5 | 180, 3 | |
| 5641 | 198 | 82/07/17 | 0134:33 | 0135:04 | 65 | 73 | | | 2 | | |
| 5642 | 198 | 82/07/17 | 0139:21 | 0141:03 | 145 | 63 | | | 2 | | |
| 5643 | 198 | 82/07/17 | 0202:13 | 0205:51 | 1189 | 21000 | 1.84E+06 | | 9 | 180, 4 | |
| 5644 | 198 | 82/07/17 | 0706:35 | 0710:37 | 517 | 163 | 9477 | | 5 | 180, 5 | |
| 5645 | 198 | 82/07/17 | 1004:19 | 1006:11 | 259 | 308 | 8444 | | 3 | 180, 6 | |
| 5646 | 198 | 82/07/17 | 1306:23 | 1306:36 | 155 | 95 | | | 2 | | |
| 5647 | 198 | 82/07/17 | 1316:58 | 1317:35 | 130 | 79 | | | 2 | | |
| 5648 | 198 | 82/07/17 | 2030:01 | 2031:03 | 374 | 358 | 32355 | | 9 | 180, 7 | |
| 5649 | 198 | 82/07/17 | 2055:29 | 2056:04 | 35 | 67 | | | 2 | | |
| 5650 | 198 | 82/07/17 | 2105:52 | 2107:28 | 187 | 66 | | | 4 | | |
| 5651 | 198 | 82/07/17 | 2124:19 | 2124:51 | 112 | 120 | 1926 | | 2 | 180, 8 | |
| 5652 | 198 | 82/07/17 | 2204:06 | 2207:03 | 750 | 666 | 1.45E+05 | | 7 | 180, 9 | |
| 5653 | 199 | 82/07/18 | 0018:37 | 0019:21 | 141 | 383 | 11266 | | 3 | 180, 15 | |
| 5654 | 199 | 82/07/18 | 0318:44 | 0319:15 | 56 | 59 | | | 2 | | |
| 5655 | 199 | 82/07/18 | 0321:00 | 0321:46 | 118 | 91 | | | 2 | | |
| 5656 | 199 | 82/07/18 | 0630:54 | 0632:21 | 118 | 98 | | | 2 | | |
| 5657 | 199 | 82/07/18 | 0633:01 | 0633:35 | 210 | 81 | | | 2 | | |
| 5658 | 199 | 82/07/18 | 0751:06 | 0751:14 | 147 | 77 | | | 2 | | SA |
| 5659 | 199 | 82/07/18 | 0959:19 | 0959:55 | 77 | 170 | 763 | | 2 | 180, 10 | |
| 5660 | 199 | 82/07/18 | 1006:44 | 1007:20 | 48 | 67 | | | 2 | | |
| 5661 | 199 | 82/07/18 | 1139:24 | 1142:07 | 193 | 126 | 7115 | | 2 | 180, 11 | |
| 5662 | 199 | 82/07/18 | 1300:09 | 1301:21 | 104 | 295 | 2705 | | 3 | 180, 12 | |
| 5663 | 199 | 82/07/18 | 2224:15 | 2224:38 | 34 | 303 | 1178 | | 5 | 180, 13 | |
| 5664 | 199 | 82/07/18 | 2225:10 | 2225:43 | 76 | 64 | | | 2 | | |
| 5665 | 199 | 82/07/18 | 2226:59 | 2227:29 | 198 | 82 | | | 5 | | AX |
| 5666 | 199 | 82/07/18 | 2330:30 | 2333:26 | 225 | 78 | 2315 | | 5 | 180, 14 | AX |
| 5667 | 200 | 82/07/19 | 0057:02 | 0100:52 | 1025 | 8174 | 1.05E+06 | | 14 | 180, 16 | M5, SN |
| 5668 | 200 | 82/07/19 | 1101:31 | 1101:51 | 37 | 80 | | | 2 | | |
| 5669 | 200 | 82/07/19 | 1248:03 | 1248:34 | 94 | 246 | 2850 | | 3 | 181, 2 | |
| 5670 | 200 | 82/07/19 | 1250:32 | 1251:47 | 283 | 718 | 51430 | | 3 | 181, 2 | |
| 5671 | 200 | 82/07/19 | 1424:34 | 1424:57 | 75 | 243 | 2088 | | 4 | 181, 3 | |
| 5672 | 200 | 82/07/19 | 1544:15 | 1544:33 | 51 | 90 | | | 2 | | |
| 5673 | 200 | 82/07/19 | 1552:06 | 1552:38 | 70 | 65 | | | 2 | | |
| 5674 | 200 | 82/07/19 | 1608:57 | 1610:48 | 141 | 340 | 15209 | | 3 | 181, 4 | EN |
| 5675 | 200 | 82/07/19 | 1841:26 | 1844:58 | 692 | 230 | 43252 | | 2 | 181, 5 | |
| 5676 | 200 | 82/07/19 | 2010:19 | 2011:04 | 84 | 77 | | | 2 | | |
| 5677 | 200 | 82/07/19 | 2013:52 | 2014:43 | 452 | 567 | 44870 | | 5 | 181, 6 | |
| 5678 | 200 | 82/07/19 | 2206:20 | 2212:07 | 1464 | 115 | 2.91E+05 | | 8 | 181, 7 | EN, AX |
| 5679 | 201 | 82/07/20 | 0229:26 | 0230:14 | 118 | 71 | | | 2 | | |
| 5680 | 201 | 82/07/20 | 0233:46 | 0234:54 | 204 | 265 | 10799 | | 2 | 181, 8 | |
| 5681 | 201 | 82/07/20 | 0239:20 | 0241:32 | 709 | 114 | 13981 | | 2 | 181, 8 | |
| 5682 | 201 | 82/07/20 | 0411:27 | 0417:49 | 2243 | 7638 | 4.84E+05 | | 15 | 181, 9 | M5 |
| 5683 | 201 | 82/07/20 | 0751:01 | 0752:56 | 198 | 142 | 4519 | | 2 | 181, 10 | |
| 5684 | 201 | 82/07/20 | 0917:22 | 0918:50 | 152 | 77 | 6337 | | 2 | | |
| 5685 | 201 | 82/07/20 | 1457:21 | 1457:33 | 47 | 156 | 688 | | 3 | 181, 11 | |

ORIGINAL PAGE IS
OF POOR QUALITY

127

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 5687 | 201 | 82/07/20 | 1633:22 | 1633:41 | 52 | 65 | | | 2 | | |
| 5688 | 201 | 82/07/20 | 1824:41 | 1826:21 | 156 | 92 | | | 2 | | |
| 5689 | 201 | 82/07/20 | 2148:43 | 2149:12 | 126 | 147 | 3578 | | 2 | 181, 12 | |
| 5690 | 201 | 82/07/20 | 2152:59 | 2154:14 | 619 | 1000 | 67191 | | 8 | 181, 12 | |
| 5691 | 201 | 82/07/20 | 2306:13 | 2310:12 | 511 | 912 | 84779 | | 4 | 181, 13 | |
| 5692 | 201 | 82/07/20 | 2321:53 | 2322:30 | 141 | 164 | 6116 | | 5 | 181, 13 | |
| 5693 | 201 | 82/07/20 | 2336:35 | 2338:01 | 339 | 102 | 6238 | | 3 | 181, 13 | |
| 5694 | 202 | 82/07/21 | 0108:44 | 0109:21 | 73 | 80 | | | 2 | | AX |
| 5695 | 202 | 82/07/21 | 0114:18 | 0115:22 | 141 | 2134 | 33237 | | 7 | 181, 14 | |
| 5699 | 202 | 82/07/21 | 1641:14 | 1645:08 | 1636 | 666 | 1.63E+05 | | 5 | 181, 16 | |
| 5700 | 202 | 82/07/21 | 1812:52 | 1822:59 | 1206 | 3374 | 3.92E+05 | | 14 | 182, 1 | M5 |
| 5701 | 202 | 82/07/21 | 1840:24 | 1842:00 | 331 | 282 | 14827 | | 2 | 182, 1 | |
| 5702 | 203 | 82/07/22 | 0015:31 | 0015:45 | 37 | 58 | | | 2 | | AX |
| 5703 | 203 | 82/07/22 | 0511:29 | 0512:50 | 227 | 3520 | 73152 | | 14 | 182, 2 | M5 |
| 5709 | 203 | 82/07/22 | 1639:55 | 1657:36 | 1098 | 569 | | | 5 | 182, 8 | EN,ND |
| 5710 | 203 | 82/07/22 | 1734:18 | 1735:10 | 261 | 109 | 7243 | | 2 | 182, 9 | |
| 5711 | 203 | 82/07/22 | 1955:09 | 1956:07 | 112 | 179 | 5485 | | 3 | 182, 10 | AX |
| 5713 | 206 | 82/07/25 | 0002:47 | 0003:19 | 32 | 66 | | | 2 | | |
| 5714 | 206 | 82/07/25 | 2132:59 | 2133:23 | 63 | 67 | | | 4 | | AX |
| 5722 | 212 | 82/07/31 | 1710:18 | 1711:14 | 198 | 71 | | | 3 | | |
| 5723 | 213 | 82/08/01 | 0717:36 | 0718:21 | 87 | 63 | | | 2 | | |
| 5724 | 213 | 82/08/01 | 0721:58 | 0722:40 | 95 | 68 | | | 2 | | |
| 5725 | 213 | 82/08/01 | 1949:09 | 1949:59 | 194 | 54 | | | 2 | | |
| 5726 | 214 | 82/08/02 | 1456:58 | 1457:51 | 136 | 62 | | | 4 | | |
| 5727 | 214 | 82/08/02 | 1620:42 | 1621:28 | 80 | 64 | | | 2 | | |
| 5728 | 214 | 82/08/02 | 1816:27 | 1817:23 | 164 | 67 | | | 2 | | EG |
| 5729 | 214 | 82/08/02 | 1953:38 | 1954:35 | 183 | 74 | | | 5 | | |
| 5732 | 215 | 82/08/03 | 1145:33 | 1146:56 | 109 | 64 | | | 2 | | |
| 5733 | 215 | 82/08/03 | 1300:58 | 1301:28 | 109 | 278 | 6389 | | 4 | 182, 15 | |
| 5734 | 215 | 82/08/03 | 1440:37 | 1441:14 | 136 | 86 | | | 5 | | AX |
| 5735 | 215 | 82/08/03 | 1620:20 | 1620:41 | 65 | 66 | | | 3 | | EG |
| 5736 | 215 | 82/08/03 | 2119:15 | 2120:09 | 91 | 60 | | | 2 | | |
| 5737 | 216 | 82/08/04 | 0000:24 | 0000:49 | 53 | 60 | | | 2 | | |
| 5738 | 216 | 82/08/04 | 0017:08 | 0018:10 | 115 | 58 | | | 2 | | |
| 5739 | 216 | 82/08/04 | 0457:24 | 0457:38 | 34 | 59 | | | 2 | | |
| 5740 | 216 | 82/08/04 | 0622:04 | 0622:30 | 38 | 67 | | | 2 | | |
| 5741 | 216 | 82/08/04 | 1007:30 | 1008:11 | 274 | 117 | 5437 | | 2 | 182, 16 | |
| 5742 | 216 | 82/08/04 | 1106:40 | 1107:13 | 62 | 76 | | | 2 | | |
| 5743 | 216 | 82/08/04 | 1750:29 | 1751:13 | 78 | 115 | 678 | | 2 | 183, 1 | |
| 5744 | 216 | 82/08/04 | 1921:55 | 1922:18 | 48 | 70 | | | 2 | | |
| 5745 | 216 | 82/08/04 | 2030:52 | 2031:03 | 31 | 73 | | | 2 | | |
| 5746 | 217 | 82/08/05 | 0342:18 | 0343:17 | 306 | 270 | 22044 | | 4 | 183, 2 | M5,EN |
| 5747 | 217 | 82/08/05 | 0807:00 | 0807:08 | 15 | 78 | | | 2 | | |
| 5748 | 217 | 82/08/05 | 0912:43 | 0912:50 | 24 | 127 | 776 | | 2 | 183, 3 | |
| 5749 | 217 | 82/08/05 | 0939:34 | 0939:58 | 81 | 81 | | | 2 | | |
| 5750 | 217 | 82/08/05 | 0943:08 | 0945:55 | 240 | 125 | 2709 | | 4 | 183, 4 | |
| 5751 | 217 | 82/08/05 | 1138:44 | 1139:11 | 130 | 711 | 26752 | | 5 | 183, 5 | |
| 5752 | 218 | 82/08/06 | 0752:39 | 0753:08 | 64 | 67 | | | 2 | | |
| 5754 | 219 | 82/08/07 | 1109:05 | 1109:55 | 110 | 85 | | | 5 | | |
| 5755 | 219 | 82/08/07 | 1149:28 | 1150:05 | 116 | 150 | 1621 | | 2 | 183, 6 | |
| 5756 | 219 | 82/08/07 | 1151:49 | 1152:47 | 60 | 83 | | | 2 | | |
| 5757 | 219 | 82/08/07 | 1158:12 | 1207:11 | 932 | 153 | 25914 | | 2 | 183, 6 | |
| 5758 | 219 | 82/08/07 | 1332:36 | 1332:56 | 102 | 78 | | | 2 | | |

ORIGINAL LIST OF OF POOR QUALITY

128

| HXBBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 5759 | 219 | 82/08/07 | 1644:21 | 1652:40 | 826 | 102 | 15479 | | 3 | 183, 7 | SG |
| 5760 | 219 | 82/08/07 | 2140:59 | 2141:53 | 88 | 394 | 4762 | | 5 | 183, 8 | |
| 5761 | 219 | 82/08/07 | 2144:02 | 2145:12 | 162 | 93 | | | 2 | 183, 8 | |
| 5762 | 220 | 82/08/08 | 0053:49 | 0054:10 | 52 | 101 | | | 2 | | EG |
| 5763 | 220 | 82/08/08 | 0519:01 | 0519:27 | 33 | 74 | | | 2 | | |
| 5764 | 220 | 82/08/08 | 0538:23 | 0538:38 | 39 | 61 | | | 2 | | |
| 5765 | 220 | 82/08/08 | 0700:33 | 0701:05 | 49 | 92 | | | 2 | | |
| 5766 | 220 | 82/08/08 | 0918:59 | 0919:21 | 42 | 66 | | | 2 | | |
| 5767 | 220 | 82/08/08 | 1037:46 | 1038:06 | 198 | 127 | 4535 | | 2 | 183, 9 | |
| 5770 | 220 | 82/08/08 | 1638:39 | 1639:15 | 86 | 72 | | | 2 | | |
| 5771 | 220 | 82/08/08 | 1642:59 | 1643:24 | 73 | 68 | | | 2 | | |
| 5772 | 220 | 82/08/08 | 1646:40 | 1646:58 | 150 | 109 | 1431 | | 2 | 183, 11 | |
| 5768 | 220 | 82/08/08 | 1756:04 | 1756:16 | 29 | 173 | 909 | | 2 | 183, 10 | |
| 5769 | 220 | 82/08/08 | 1759:31 | 1800:01 | 79 | 75 | | | 2 | | |
| 5773 | 221 | 82/08/09 | 1613:05 | 1614:25 | 120 | 86 | | | 5 | | AX |
| 5774 | 221 | 82/08/09 | 1616:34 | 1617:01 | 157 | 83 | | | 5 | | AX |
| 5775 | 222 | 82/08/10 | 0516:27 | 0517:16 | 189 | 129 | 8702 | | 2 | 183, 12 | |
| 5776 | 222 | 82/08/10 | 0525:09 | 0529:12 | 519 | 283 | 29553 | | 2 | 183, 12 | |
| 5777 | 223 | 82/08/11 | 1138:09 | 1139:13 | 200 | 1516 | 57530 | | 4 | 183, 14 | MS |
| 5778 | 224 | 82/08/12 | 1044:24 | 1045:44 | 139 | 148 | 4124 | | 2 | 183, 15 | |
| 5780 | 225 | 82/08/13 | 1342:36 | 1343:22 | 124 | 294 | 5826 | | 7 | 183, 16 | |
| 5781 | 225 | 82/08/13 | 1813:39 | 1817:52 | 502 | 186 | 14530 | | 3 | 184, 1 | |
| 5782 | 225 | 82/08/13 | 2255:37 | 2259:36 | 638 | 446 | 31668 | | 5 | 184, 2 | |
| 5783 | 225 | 82/08/13 | 2318:53 | 2323:45 | 452 | 71 | 2533 | | 2 | 184, 3 | |
| 5784 | 226 | 82/08/14 | 0240:35 | 0242:26 | 597 | 610 | 39639 | | 4 | 184, 4 | |
| 5785 | 226 | 82/08/14 | 0400:11 | 0400:57 | 298 | 77 | 1930 | | 2 | 184, 5 | |
| 5786 | 226 | 82/08/14 | 0509:38 | 0510:05 | 444 | 535 | 39222 | | 5 | 184, 6 | SN, EG |
| 5787 | 228 | 82/08/16 | 0203:15 | 0204:35 | 273 | 259 | 59307 | | 5 | 184, 7 | ND |
| 5788 | 228 | 82/08/16 | 1232:35 | 1233:55 | 198 | 77 | | | 3 | | AX |
| 5789 | 230 | 82/08/18 | 0407:41 | 0407:48 | 13 | 69 | | | 2 | | |
| 5790 | 230 | 82/08/18 | 0750:55 | 0752:10 | 175 | 74 | | | 2 | | |
| 5791 | 230 | 82/08/18 | 0753:51 | 0754:49 | 118 | 72 | | | 2 | | |
| 5792 | 230 | 82/08/18 | 2346:42 | 2347:06 | 63 | 79 | | | 2 | | |
| 5793 | 231 | 82/08/19 | 0047:20 | 0047:53 | 69 | 136 | 1680 | | 2 | 184, 8 | |
| 5794 | 233 | 82/08/21 | 1609:41 | 1611:03 | 210 | 75 | | | 2 | | |
| 5799 | 239 | 82/08/27 | 2106:46 | 2107:00 | 58 | 72 | | | 2 | | |
| 5800 | 240 | 82/08/28 | 0215:09 | 0215:44 | 68 | 65 | | | 2 | | |
| 5801 | 240 | 82/08/28 | 0508:30 | 0509:04 | 83 | 97 | | | 2 | | |
| 5802 | 240 | 82/08/28 | 0642:25 | 0642:56 | 76 | 79 | | | 2 | | |
| 5803 | 240 | 82/08/28 | 2212:37 | 2212:46 | 19 | 60 | | | 2 | | |
| 5804 | 240 | 82/08/28 | 2258:13 | 2300:31 | 152 | 381 | 4303 | | 5 | 184, 12 | |
| 5805 | 241 | 82/08/29 | 0314:16 | 0314:56 | 165 | 80 | | | 2 | | |
| 5806 | 241 | 82/08/29 | 0345:08 | 0345:53 | 36 | 68 | | | 2 | | |
| 5807 | 241 | 82/08/29 | 2334:51 | 2336:23 | 118 | 63 | | | 2 | | AX |
| 5808 | 242 | 82/08/30 | 0013:02 | 0014:41 | 168 | 171 | 3474 | | 2 | 184, 13 | |
| 5809 | 243 | 82/08/31 | 0743:05 | 0743:22 | 56 | 98 | | | 2 | | |
| 5810 | 243 | 82/08/31 | 1721:15 | 1725:26 | 633 | 223 | 49025 | | 2 | 184, 14 | |
| 5811 | 243 | 82/08/31 | 1757:56 | 1858:24 | 72 | 139 | 2465 | | 2 | 184, 15 | |
| 5812 | 244 | 82/09/01 | 0738:14 | 0739:29 | 191 | 96 | | | 2 | | AX |
| 5813 | 244 | 82/09/01 | 0917:21 | 0918:44 | 196 | 114 | 6768 | | 2 | 184, 16 | |
| 5814 | 244 | 82/09/01 | 1619:51 | 1620:53 | 201 | 475 | 14605 | | 4 | 185, 1 | |
| 5815 | 244 | 82/09/01 | 1829:10 | 1829:17 | 29 | 59 | | | 2 | | |
| 5816 | 244 | 82/09/01 | 2126:55 | 2127:42 | 104 | 96 | 4601 | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

129

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 5817 | 245 | 82/09/02 | 2125:25 | 2126:12 | 149 | 57 | | | 2 | | |
| 5818 | 245 | 82/09/02 | 2259:40 | 2259:58 | 40 | 89 | | | 2 | | |
| 5819 | 245 | 82/09/02 | 2308:39 | 2309:34 | 138 | 99 | | | 5 | | AX |
| 5820 | 246 | 82/09/03 | 0138:01 | 0138:35 | 165 | 67 | | | 2 | | |
| 5821 | 248 | 82/09/05 | 0308:50 | 0309:36 | 127 | 65 | | | 2 | | |
| 5822 | 249 | 82/09/06 | 0041:59 | 0042:32 | 95 | 65 | | | 2 | | |
| 5823 | 249 | 82/09/06 | 2159:12 | 2200:29 | 316 | 119 | 6299 | | 5 | 185, 2 | |
| 5824 | 249 | 82/09/06 | 2329:27 | 2331:22 | 199 | 65 | | | 2 | | |
| 5825 | 251 | 82/09/08 | 2123:00 | 2123:46 | 215 | 75 | | | 3 | | SG |
| 5826 | 252 | 82/09/09 | 0200:40 | 0201:08 | 150 | 62 | | | 2 | | |
| 5827 | 252 | 82/09/09 | 0953:11 | 0953:36 | 39 | 69 | | | 2 | | |
| 5828 | 252 | 82/09/09 | 0954:38 | 0955:02 | 30 | 59 | | | 2 | | |
| 5829 | 252 | 82/09/09 | 0956:35 | 0956:58 | 90 | 174 | 2135 | | 2 | 185, 3 | |
| 5830 | 252 | 82/09/09 | 1011:41 | 1011:46 | 51 | 61 | | | 2 | | |
| 5831 | 252 | 82/09/09 | 1014:38 | 1015:13 | 77 | 68 | | | 2 | | |
| 5832 | 253 | 82/09/10 | 0014:37 | 0015:04 | 97 | 62 | | | 2 | | |
| 5833 | 253 | 82/09/10 | 0019:44 | 0022:38 | 220 | 77 | 2654 | | 2 | 185, 4 | |
| 5834 | 253 | 82/09/10 | 0437:03 | 0439:08 | 470 | 75 | 3644 | | 2 | 185, 5 | |
| 5835 | 253 | 82/09/10 | 0826:21 | 0826:50 | 114 | 869 | 18849 | | 4 | 185, 6 | |
| 5836 | 253 | 82/09/10 | 2143:59 | 2144:12 | 43 | 73 | | | 2 | | |
| 5837 | 253 | 82/09/10 | 2147:32 | 2147:56 | 70 | 113 | 1698 | | 5 | 185, 7 | |
| 5838 | 254 | 82/09/11 | 0607:08 | 0607:29 | 59 | 68 | | | 2 | | |
| 5839 | 254 | 82/09/11 | 0634:22 | 0635:22 | 102 | 64 | | | 2 | | |
| 5840 | 254 | 82/09/11 | 1529:18 | 1529:43 | 84 | 88 | | | 2 | | |
| 5841 | 255 | 82/09/12 | 1548:56 | 1550:07 | 81 | 87 | | | 2 | | |
| 5845 | 257 | 82/09/14 | 2352:51 | 2353:11 | 62 | 69 | | | 2 | | |
| 5846 | 258 | 82/09/15 | 0214:05 | 0218:02 | 519 | 70 | 3191 | | 2 | 185, 11 | |
| 5856 | 259 | 82/09/16 | 0822:53 | 0823:25 | 74 | 56 | | | 14 | | |
| 5854 | 260 | 82/09/17 | 0301:53 | 0302:31 | 110 | 61 | | | 2 | | |
| 5855 | 261 | 82/09/18 | 1508:11 | 1508:52 | 109 | 60 | | | 2 | | |
| 5858 | 263 | 82/09/20 | 1131:18 | 1131:25 | 21 | 118 | 736 | | 10 | | |
| 5859 | 263 | 82/09/20 | 2217:17 | 2217:54 | 77 | 65 | | | 6 | | |
| 5864 | 266 | 82/09/23 | 0854:17 | 0854:28 | 30 | 94 | | | 6 | | |
| 5867 | 269 | 82/09/26 | 1421:23 | 1425:46 | 408 | 145 | 11577 | | 5 | 186, 3 | AX, EG |
| 5868 | 270 | 82/09/27 | 0141:39 | 0142:17 | 101 | 102 | 1730 | | 2 | 186, 4 | |
| 5869 | 271 | 82/09/28 | 0815:52 | 0816:14 | 41 | 63 | | | 2 | | |
| 5870 | 271 | 82/09/28 | 2330:53 | 2331:20 | 89 | 2052 | 31286 | | 7 | 186, 5 | M5 |
| 5871 | 272 | 82/09/29 | 0220:44 | 0220:52 | 13 | 62 | | | 2 | | |
| 5872 | 272 | 82/09/29 | 1842:17 | 1842:26 | 28 | 56 | | | 2 | | ES |
| 5873 | 272 | 82/09/29 | 2014:57 | 2015:32 | 95 | 69 | | | 2 | | |
| 5874 | 272 | 82/09/29 | 2016:33 | 2017:33 | 146 | 94 | | | 2 | | |
| 5875 | 273 | 82/09/30 | 0836:23 | 0837:19 | 362 | 124 | 2792 | | 2 | 186, 7 | |
| 5876 | 273 | 82/09/30 | 1033:24 | 1036:39 | 335 | 125 | 4553 | | 2 | 186, 8 | AX |
| 5877 | 273 | 82/09/30 | 1203:58 | 1204:54 | 902 | 164 | 22759 | | 13 | 186, 9 | AX |
| 5878 | 273 | 82/09/30 | 1630:26 | 1632:29 | 211 | 110 | 3022 | | 2 | 186, 10 | |
| 5879 | 275 | 82/10/02 | 1239:34 | 1239:56 | 52 | 66 | | | 2 | | |
| 5880 | 276 | 82/10/03 | 0440:27 | 0440:47 | 58 | 75 | | | 2 | | |
| 5881 | 276 | 82/10/03 | 2012:19 | 2012:34 | 93 | 63 | | | 2 | | |
| 5886 | 277 | 82/10/04 | 0403:42 | 0405:32 | 132 | 64 | | | 2 | | |
| 5882 | 277 | 82/10/04 | 0612:42 | 0612:50 | 27 | 176 | 604 | | 2 | 186, 11 | |
| 5883 | 277 | 82/10/04 | 0750:10 | 0750:23 | 46 | 351 | 3504 | | 3 | 186, 12 | |
| 5885 | 277 | 82/10/04 | 1648:40 | 1649:06 | 44 | 72 | | | 2 | | |
| 5888 | 278 | 82/10/05 | 2143:14 | 2144:51 | 200 | 74 | | | 2 | | |

ORIGINAL SAMPLE
OF POOR QUALITY

190

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 5890 | 279 | 82/10/06 | 0353:52 | 0355:39 | 128 | 208 | 40639 | | 3 | 186, 15 | ND |
| 5887 | 279 | 82/10/06 | 0544:33 | 0545:28 | 116 | 63 | | | 2 | | |
| 5889 | 279 | 82/10/06 | 2301:36 | 2303:36 | 526 | 1278 | 1.26E+05 | | 3 | 186, 14 | M5 |
| 5891 | 286 | 82/10/13 | 0655:26 | 0655:41 | 32 | 59 | | | 2 | | |
| 5892 | 287 | 82/10/14 | 0014:36 | 0014:59 | 40 | 415 | 4244 | | 4 | 186, 16 | |
| 5893 | 287 | 82/10/14 | 0151:07 | 0151:13 | 12 | 82 | | | 2 | | |
| 5894 | 287 | 82/10/14 | 0152:30 | 0152:51 | 148 | 243 | 4307 | | 3 | 187, 1 | |
| 5895 | 288 | 82/10/15 | 2035:50 | 2037:39 | 680 | 214 | 15863 | | 3 | 187, 2 | |
| 5896 | 289 | 82/10/16 | 2122:30 | 2122:53 | 55 | 68 | | | 2 | | |
| 5897 | 289 | 82/10/16 | 2131:21 | 2132:16 | 149 | 71 | | | 4 | | |
| 5898 | 290 | 82/10/17 | 2108:42 | 2109:06 | 68 | 71 | | | 5 | | |
| 5899 | 290 | 82/10/17 | 2326:23 | 2330:37 | 303 | 127 | 3866 | | 6 | 187, 3 | |
| 5900 | 291 | 82/10/18 | 0201:15 | 0202:41 | 78 | 74 | | | 3 | | |
| 5901 | 291 | 82/10/18 | 0417:47 | 0417:51 | 208 | 58 | | | 3 | | |
| 5902 | 292 | 82/10/19 | 0007:50 | 0009:15 | 161 | 62 | | | 2 | | AX |
| 5903 | 292 | 82/10/19 | 1133:26 | 1139:29 | 501 | 285 | 9735 | | 2 | 187, 4 | |
| 5904 | 292 | 82/10/19 | 1803:15 | 1803:39 | 96 | 91 | | | 2 | | |
| 5905 | 292 | 82/10/19 | 1919:43 | 1920:11 | 81 | 58 | | | 2 | | |
| 5906 | 293 | 82/10/20 | 0123:24 | 0123:57 | 83 | 72 | | | 2 | | |
| 5907 | 294 | 82/10/21 | 0107:17 | 0108:04 | 157 | 79 | | | 3 | | AX |
| 5908 | 294 | 82/10/21 | 0133:35 | 0134:09 | 68 | 59 | | | 2 | | |
| 5909 | 294 | 82/10/21 | 0812:12 | 0812:57 | 51 | 71 | | | 2 | | |
| 5910 | 294 | 82/10/21 | 2001:29 | 2002:17 | 98 | 55 | | | 2 | | |
| 5911 | 294 | 82/10/21 | 2215:43 | 2216:29 | 108 | 121 | 3187 | | 3 | 187, 5 | |
| 5912 | 295 | 82/10/22 | 2121:59 | 2122:43 | 90 | 64 | | | 2 | | |
| 5913 | 295 | 82/10/22 | 2156:40 | 2157:31 | 103 | 72 | | | 6 | | |
| 5914 | 298 | 82/10/25 | 1130:58 | 1131:11 | 173 | 95 | | | 2 | | |
| 5916 | 298 | 82/10/25 | 1557:31 | 1559:00 | 188 | 74 | | | 2 | | |
| 5917 | 298 | 82/10/25 | 1845:06 | 1845:52 | 88 | 89 | | | 2 | | |
| 5915 | 298 | 82/10/25 | 1852:01 | 1552:45 | 70 | 58 | | | 2 | | |
| 5918 | 298 | 82/10/25 | 2249:32 | 2253:33 | 262 | 487 | 31758 | | 5 | 187, 6 | |
| 5919 | 299 | 82/10/26 | 0025:20 | 0025:45 | 93 | 1046 | 13934 | | 5 | 187, 7 | |
| 5920 | 299 | 82/10/26 | 0137:38 | 0138:02 | 31 | 73 | | | 2 | | |
| 5921 | 299 | 82/10/26 | 2014:42 | 2015:08 | 37 | 56 | | | 2 | | |
| 5922 | 299 | 82/10/26 | 2204:11 | 2204:22 | 110 | 100 | | | 2 | | |
| 5923 | 300 | 82/10/27 | 0052:19 | 0052:43 | 156 | 145 | 2130 | | 2 | 187, 8 | |
| 5924 | 300 | 82/10/27 | 0303:24 | 0305:16 | 210 | 829 | 23467 | | 3 | 187, 9 | |
| 5925 | 300 | 82/10/27 | 0409:01 | 0409:17 | 401 | 826 | 75549 | | 4 | 187, 10 | SA |
| 5926 | 300 | 82/10/27 | 0427:46 | 0436:00 | 1568 | 1108 | 2.88E+05 | | 8 | 187, 10 | M5 |
| 5927 | 300 | 82/10/27 | 0751:37 | 0751:50 | 26 | 88 | | | 2 | | |
| 5928 | 300 | 82/10/27 | 1045:44 | 1045:57 | 103 | 87 | | | 2 | | |
| 5929 | 300 | 82/10/27 | 1545:17 | 1545:49 | 56 | 86 | | | 2 | | |
| 5930 | 300 | 82/10/27 | 1827:23 | 1827:50 | 45 | 59 | | | 2 | | |
| 5931 | 300 | 82/10/27 | 1950:58 | 1951:18 | 63 | 64 | | | 2 | | |
| 5932 | 300 | 82/10/27 | 2007:48 | 2007:59 | 87 | 63 | | | 2 | | |
| 5933 | 300 | 82/10/27 | 2013:10 | 2013:16 | 40 | 53 | | | 2 | | |
| 5934 | 300 | 82/10/27 | 2017:26 | 2019:25 | 220 | 214 | 11396 | | 3 | 187, 11 | |
| 5935 | 301 | 82/10/28 | 0352:05 | 0352:31 | 58 | 168 | 2598 | | 4 | 187, 12 | |
| 5936 | 303 | 82/10/30 | 0350:03 | 0350:18 | 38 | 85 | | | 2 | | |
| 5937 | 303 | 82/10/30 | 1730:26 | 1730:47 | 62 | 89 | | | 2 | | |
| 5938 | 303 | 82/10/30 | 1933:36 | 1934:54 | 195 | 89 | | | 13 | | AX |
| 5939 | 304 | 82/10/31 | 2211:42 | 2211:51 | 22 | 51 | | | 2 | | |
| 5940 | 305 | 82/11/01 | 1953:51 | 1954:07 | 57 | 150 | 2296 | | 7 | 187, 13 | AX, SN |

ORIGINAL PAGE 13
OF POOR QUALITY

131

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 5941 | 305 | 82/11/01 | 2006:04 | 2008:37 | 263 | 107 | 3281 | | 2 | 187, 13 | |
| 5942 | 305 | 82/11/01 | 2204:26 | 2205:54 | 170 | 69 | | | 5 | | |
| 5943 | 305 | 82/11/01 | 2217:48 | 2218:56 | 162 | 83 | | | 5 | | |
| 5944 | 306 | 82/11/02 | 0131:51 | 0131:44 | 10 | 112 | 243 | | 14 | 187, 14 | |
| 5945 | 306 | 82/11/02 | 1221:39 | 1222:11 | 71 | 95 | | | 2 | | |
| 5946 | 306 | 82/11/02 | 1626:49 | 1627:57 | 128 | 132 | 3317 | | 2 | 187, 15 | |
| 5947 | 307 | 82/11/03 | 0349:29 | 0350:11 | 145 | 206 | 4279 | | 3 | 187, 16 | |
| 5948 | 307 | 82/11/03 | 0709:44 | 0911:04 | 148 | 89 | | | 2 | | |
| 5949 | 307 | 82/11/03 | 0735:12 | 0735:25 | 25 | 112 | 658 | | 2 | 188, 1 | |
| 5950 | 307 | 82/11/03 | 2140:02 | 2140:28 | 77 | 68 | | | 15 | | AX |
| 5951 | 308 | 82/11/04 | 0849:49 | 0849:55 | 55 | 64 | | | 14 | | |
| 5952 | 308 | 82/11/04 | 1435:03 | 1435:31 | 67 | 67 | | | 2 | | |
| 5953 | 311 | 82/11/07 | 1101:34 | 1102:14 | 91 | 54 | | | 11 | | |
| 5954 | 312 | 82/11/08 | 1216:31 | 1217:36 | 94 | 81 | | | 2 | | |
| 5955 | 312 | 82/11/08 | 1218:45 | 1219:08 | 52 | 62 | | | 2 | | |
| 5956 | 312 | 82/11/08 | 1223:31 | 1223:56 | 38 | 69 | | | 2 | | |
| 5957 | 312 | 82/11/08 | 1531:46 | 1532:53 | 109 | 140 | 2903 | | 2 | 188, 2 | |
| 5958 | 314 | 82/11/10 | 0022:17 | 0022:39 | 135 | 99 | | | 2 | | |
| 5959 | 314 | 82/11/10 | 1757:03 | 1759:04 | 134 | 96 | | | 2 | | AX |
| 5960 | 314 | 82/11/10 | 1921:08 | 1921:33 | 56 | 65 | | | 2 | | |
| 5961 | 315 | 82/11/11 | 0216:21 | 0216:49 | 58 | 121 | 1225 | | 2 | 188, 3 | EN |
| 5962 | 315 | 82/11/11 | 0629:57 | 0630:13 | 43 | 85 | | | 2 | | |
| 5963 | 315 | 82/11/11 | 0656:50 | 0657:10 | 80 | 71 | | | 2 | | |
| 5964 | 319 | 82/11/15 | 1614:22 | 1616:11 | 390 | 496 | 56681 | | 3 | 188, 4 | |
| 5965 | 321 | 82/11/17 | 1039:27 | 1040:09 | 166 | 98 | | | 2 | | |
| 5966 | 321 | 82/11/17 | 1042:42 | 1043:01 | 114 | 81 | | | 2 | | |
| 5967 | 322 | 82/11/18 | 0122:44 | 0123:58 | 192 | 113 | 5248 | | 2 | 188, 5 | |
| 5968 | 322 | 82/11/18 | 0302:51 | 0303:39 | 135 | 112 | 2007 | | 2 | 188, 2 | |
| 5969 | 322 | 82/11/18 | 0454:15 | 0455:00 | 200 | 98 | | | 2 | | |
| 5974 | 323 | 82/11/19 | 0528:42 | 0529:57 | 565 | 393 | 61752 | | 3 | 188, 9 | |
| 5970 | 323 | 82/11/19 | 0729:59 | 0731:11 | 195 | 89 | | | 2 | | |
| 5971 | 323 | 82/11/19 | 2314:35 | 2315:26 | 102 | 136 | 2014 | | 2 | 188, 7 | |
| 5972 | 323 | 82/11/19 | 2318:32 | 2318:50 | 32 | 88 | | | 2 | | |
| 5973 | 324 | 82/11/20 | 0156:15 | 0215:24 | 1602 | 152 | 37482 | | 2 | 188, 8 | |
| 5975 | 324 | 82/11/20 | 1010:06 | 1012:03 | 453 | 3269 | 3.61E+05 | | 5 | 188, 10 | |
| 5976 | 324 | 82/11/20 | 2235:02 | 2235:21 | 44 | 125 | 1291 | | 2 | 188, 12 | |
| 5977 | 325 | 82/11/21 | 0135:26 | 0136:14 | 70 | 93 | | | 2 | | |
| 5978 | 325 | 82/11/21 | 2355:18 | 2355:27 | 50 | 132 | 811 | | 2 | 188, 13 | |
| 5979 | 326 | 82/11/22 | 0339:08 | 0339:22 | 50 | 63 | | | 2 | | |
| 5980 | 326 | 82/11/22 | 0450:03 | 0450:46 | 125 | 177 | 3668 | | 2 | 188, 14 | |
| 5981 | 326 | 82/11/22 | 1129:18 | 1129:30 | 149 | 210 | 2304 | | 5 | 188, 15 | |
| 5982 | 326 | 82/11/22 | 1139:06 | 1139:27 | 110 | 62 | | | 2 | | |
| 5983 | 326 | 82/11/22 | 1219:55 | 1220:02 | 20 | 55 | | | 2 | | |
| 5984 | 326 | 82/11/22 | 1444:06 | 1444:14 | 30 | 1798 | 11326 | | 10 | 188, 16 | MS |
| 5985 | 326 | 82/11/22 | 1450:34 | 1450:39 | 12 | 118 | 341 | | 4 | 188, 16 | |
| 5986 | 326 | 82/11/22 | 1533:40 | 1533:44 | 30 | 105 | 416 | | 2 | 189, 1 | |
| 5987 | 326 | 82/11/22 | 1537:44 | 1537:53 | 104 | 144 | 2071 | | 3 | 189, 1 | |
| 5988 | 326 | 82/11/22 | 1702:00 | 1702:08 | 164 | 286 | 6662 | | 8 | 189, 2 | SN |
| 5989 | 327 | 82/11/23 | 0245:21 | 0245:54 | 49 | 111 | 549 | | 2 | 189, 3 | |
| 5990 | 327 | 82/11/23 | 0317:21 | 0317:39 | 88 | 3734 | 72240 | | 8 | 189, 4 | |
| 5991 | 327 | 82/11/23 | 0324:54 | 0325:44 | 100 | 136 | 1594 | | 5 | 189, 4 | |
| 5992 | 327 | 82/11/23 | 1032:54 | 1033:24 | 77 | 113 | 863 | | 2 | 189, 5 | |
| 5993 | 327 | 82/11/23 | 1107:34 | 1108:14 | 78 | 74 | | | 2 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPEN. FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|------------|
| 5994 | 327 | 82/11/23 | 1111:08 | 1111:35 | 104 | 264 | 3093 | | 5 | 189, 6 | |
| 5995 | 327 | 82/11/23 | 1113:35 | 1115:26 | 199 | 132 | 3843 | | 2 | 189, 6 | |
| 5996 | 327 | 82/11/23 | 1117:58 | 1120:57 | 307 | 321 | 7101 | | 8 | 189, 6 | M5 |
| 5997 | 327 | 82/11/23 | 1202:18 | 1202:52 | 51 | 122 | 1497 | | 4 | 189, 7 | |
| 5998 | 327 | 82/11/23 | 1246:53 | 1247:37 | 218 | 171 | 6945 | | 5 | 189, 8 | |
| 5999 | 327 | 82/11/23 | 1335:13 | 1336:55 | 142 | 58 | | | 2 | | |
| 6000 | 327 | 82/11/23 | 1340:09 | 1340:38 | 161 | 119 | 1889 | | 4 | 189, 9 | |
| 6001 | 327 | 82/11/23 | 1344:56 | 1345:49 | 250 | 2201 | 65222 | | 10 | 189, 9 | M5 |
| 6002 | 327 | 82/11/23 | 1425:49 | 1426:11 | 112 | 97 | | | 2 | | |
| 6003 | 327 | 82/11/23 | 1431:28 | 1431:52 | 97 | 404 | 5472 | | 7 | 189, 10 | |
| 6004 | 327 | 82/11/23 | 1510:48 | 1511:53 | 100 | 195 | 4559 | | 5 | 189, 11 | |
| 6005 | 327 | 82/11/23 | 1517:09 | 1517:58 | 79 | 149 | 1527 | | 3 | 189, 11 | |
| 6006 | 327 | 82/11/23 | 1519:49 | 1520:19 | 155 | 183 | 5285 | | 4 | 189, 11 | |
| 6007 | 327 | 82/11/23 | 1606:46 | 1607:00 | 69 | 81 | | | 2 | | |
| 6008 | 327 | 82/11/23 | 1652:27 | 1652:51 | 71 | 572 | 6824 | | 6 | 189, 12 | |
| 6009 | 327 | 82/11/23 | 1820:02 | 1820:14 | 51 | 71 | | | 2 | | |
| 6010 | 327 | 82/11/23 | 1958:38 | 1959:37 | 177 | 78 | | | 2 | | |
| 6011 | 327 | 82/11/23 | 2020:45 | 2021:05 | 44 | 83 | | | 2 | | |
| 6012 | 328 | 82/11/24 | 0442:47 | 0444:17 | 205 | 155 | 9290 | | 3 | 189, 13 | |
| 6013 | 328 | 82/11/24 | 0554:37 | 0555:14 | 98 | 67 | | | 2 | | |
| 6014 | 328 | 82/11/24 | 1939:18 | 1939:38 | 46 | 363 | 2840 | | 5 | 189, 14 | |
| 6015 | 328 | 82/11/24 | 1942:33 | 1943:33 | 103 | 64 | | | 2 | | |
| 6016 | 328 | 82/11/24 | 2331:05 | 2331:36 | 38 | 84 | | | 2 | | |
| * 6017 | 330 | 82/11/26 | 0217:52 | 0233:22 | 9999 | 22747 | 4.81E+06 | | 15 | 189, 15 | M5, S6, D6 |
| 6274 | 330 | 82/11/26 | 0515:47 | 0517:02 | 196 | 441 | 12364 | | 3 | 195, 5 | |
| 6018 | 332 | 82/11/28 | 0557:16 | 0557:30 | 57 | 139 | 2222 | | 2 | 189, 16 | AX |
| 6019 | 332 | 82/11/28 | 0749:09 | 0749:17 | 59 | 82 | | | 2 | | |
| 6020 | 332 | 82/11/28 | 2322:21 | 2322:40 | 31 | 67 | | | 2 | | |
| 6021 | 333 | 82/11/29 | 0305:14 | 0305:46 | 95 | 76 | | | 2 | | |
| 6022 | 333 | 82/11/29 | 0740:41 | 0740:48 | 23 | 62 | | | 2 | | |
| 6023 | 333 | 82/11/29 | 0927:35 | 0929:09 | 215 | 115 | 3582 | | 2 | 190, 1 | |
| 6024 | 334 | 82/11/30 | 0044:56 | 0045:34 | 65 | 228 | 2581 | | 3 | 190, 2 | |
| 6025 | 334 | 82/11/30 | 0046:39 | 0046:53 | 89 | 132 | 1869 | | 2 | 190, 2 | |
| 6026 | 334 | 82/11/30 | 0336:46 | 0337:10 | 45 | 81 | | | 2 | | |
| 6027 | 334 | 82/11/30 | 0411:22 | 0411:39 | 53 | 687 | 6323 | | 3 | 190, 3 | |
| 6028 | 335 | 82/12/01 | 0010:54 | 0011:05 | 37 | 189 | 1351 | | 3 | 190, 4 | |
| 6029 | 336 | 82/12/02 | 0259:36 | 0259:49 | 57 | 80 | | | 2 | | |
| 6030 | 336 | 82/12/02 | 1003:53 | 1004:24 | 100 | 68 | | | 2 | | |
| 6031 | 336 | 82/12/02 | 2108:57 | 2111:46 | 404 | 263 | 34789 | | 5 | 190, 5 | |
| 6033 | 336 | 82/12/02 | 2240:12 | 2241:32 | 85 | 150 | | | 2 | | |
| 6032 | 337 | 82/12/03 | 0637:28 | 0638:00 | 60 | 62 | | | 2 | | |
| 6034 | 337 | 82/12/03 | 1914:15 | 1914:28 | 33 | 159 | | | 3 | 190, 6 | |
| 6035 | 337 | 82/12/03 | 2142:19 | 2142:52 | 98 | 76 | | | 2 | | |
| 6036 | 338 | 82/12/04 | 0912:17 | 0913:17 | 236 | 626 | 33414 | | 2 | 190, 7 | SA |
| 6037 | 338 | 82/12/04 | 0925:45 | 0926:28 | 118 | 261 | 3481 | | 3 | 190, 7 | D6 |
| 6038 | 339 | 82/12/05 | 0047:35 | 0048:42 | 65 | 66 | | | 2 | | |
| 6039 | 339 | 82/12/05 | 0256:35 | 0257:10 | 98 | 78 | | | 2 | | |
| 6040 | 339 | 82/12/05 | 0918:39 | 0918:57 | 38 | 57 | | | 2 | | |
| 6041 | 339 | 82/12/05 | 2109:53 | 2110:30 | 65 | 119 | 2128 | | 5 | 190, 8 | |
| 6042 | 339 | 82/12/05 | 2330:46 | 2331:39 | 82 | 80 | | | 4 | | |
| 6043 | 340 | 82/12/06 | 0020:29 | 0021:15 | 154 | 426 | 19615 | | 6 | 190, 9 | AX |
| 6044 | 340 | 82/12/06 | 0029:18 | 0030:34 | 152 | 87 | | | 3 | | |
| 6045 | 340 | 82/12/06 | 0109:53 | 0110:38 | 68 | 69 | | | 3 | | |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------------|
| 6046 | 340 | 82/12/06 | 0207:14 | 0207:45 | 65 | 64 | | | 2 | | |
| 6047 | 340 | 82/12/06 | 2136:34 | 2136:56 | 37 | 74 | | | 2 | | |
| 6048 | 340 | 82/12/06 | 2359:22 | 0001:07 | 206 | 240 | | | 5 | 190, 10 | NO |
| 6049 | 341 | 82/12/07 | 0700:17 | 0701:16 | 91 | 76 | | | 2 | | |
| 6050 | 341 | 82/12/07 | 0702:35 | 0703:46 | 25 | 88 | | | 2 | | |
| 6051 | 341 | 82/12/07 | 1317:14 | 1319:19 | 261 | 197 | 15341 | | 2 | 190, 11 | |
| 6052 | 341 | 82/12/07 | 1622:59 | 1623:12 | 43 | 61 | | | 2 | | |
| 6053 | 341 | 82/12/07 | 1742:08 | 1742:42 | 67 | 96 | | | 2 | | |
| 6054 | 341 | 82/12/07 | 1746:58 | 1748:56 | 202 | 332 | 7085 | | 5 | 190, 12 | |
| 6055 | 341 | 82/12/07 | 1756:32 | 1757:04 | 57 | 76 | | | 2 | | |
| 6056 | 341 | 82/12/07 | 1806:24 | 1810:11 | 518 | 427 | 45017 | | 2 | 190, 14 | |
| 6057 | 341 | 82/12/07 | 2031:48 | 2031:53 | 8 | 90 | | | 2 | | |
| 6058 | 341 | 82/12/07 | 2201:38 | 2202:58 | 97 | 63 | | | 2 | | |
| 6059 | 341 | 82/12/07 | 2252:13 | 2252:51 | 148 | 85 | | | 7 | | AX |
| 6060 | 341 | 82/12/07 | 2335:30 | 2352:41 | 3539 | 23654 | 1.80E+07 | | 15 | 190, 13 | M5, SN, EN |
| 6061 | 342 | 82/12/08 | 0134:09 | 0134:40 | 51 | 67 | | | 2 | | |
| 6062 | 342 | 82/12/08 | 0156:01 | 0156:12 | 33 | 65 | | | 2 | | |
| 6063 | 342 | 82/12/08 | 0159:58 | 0200:49 | 104 | 70 | | | 2 | | |
| 6064 | 342 | 82/12/08 | 0203:45 | 0204:44 | 65 | 69 | | | 2 | | |
| 6065 | 342 | 82/12/08 | 0207:17 | 0207:32 | 170 | 82 | | | 2 | | |
| 6066 | 342 | 82/12/08 | 0253:52 | 0255:02 | 200 | 110 | 3126 | | 2 | 190, 14 | |
| 6067 | 342 | 82/12/08 | 0301:14 | 0306:26 | 769 | 312 | 59282 | | 2 | 190, 14 | |
| 6068 | 342 | 82/12/08 | 0825:13 | 0828:03 | 207 | 114 | 2082 | | 2 | 190, 15 | |
| 6069 | 342 | 82/12/08 | 0939:01 | 0939:19 | 49 | 90 | | | 2 | | |
| 6070 | 342 | 82/12/08 | 0950:41 | 0950:56 | 39 | 68 | | | 2 | | |
| 6071 | 342 | 82/12/08 | 0953:07 | 0953:36 | 60 | 86 | | | 2 | | |
| 6072 | 342 | 82/12/08 | 1348:20 | 1443:52 | 6734 | 2454 | 1.59E+06 | | 15 | 199, 1 | M5, SN, IS, |
| 6073 | 342 | 82/12/08 | 1609:23 | 1609:54 | 255 | 106 | 3131 | | 2 | 190, 16 | |
| 6074 | 342 | 82/12/08 | 2336:03 | 2337:04 | 79 | 72 | | | 2 | | |
| 6075 | 342 | 82/12/08 | 2342:37 | 2343:05 | 55 | 75 | | | 2 | | |
| 6076 | 343 | 82/12/09 | 1600:44 | 1601:20 | 196 | 205 | 6443 | | 2 | 191, 1 | |
| 6077 | 343 | 82/12/09 | 1733:30 | 1737:07 | 319 | 259 | 19941 | | 3 | 191, 2 | EN |
| 6078 | 343 | 82/12/09 | 1848:46 | 1849:04 | 42 | 71 | | | 2 | | |
| 6079 | 343 | 82/12/09 | 1859:39 | 1902:43 | 376 | 469 | 26528 | | 3 | 191, 3 | |
| 6080 | 343 | 82/12/09 | 2124:26 | 2125:04 | 46 | 69 | | | 2 | | |
| 6081 | 343 | 82/12/09 | 2142:33 | 2145:42 | 2134 | 2936 | 1.01E+06 | | 5 | 191, 4 | M5 |
| 6082 | 344 | 82/12/10 | 0040:29 | 0040:56 | 153 | 76 | | | 2 | | |
| 6083 | 344 | 82/12/10 | 0043:32 | 0044:17 | 87 | 97 | | | 2 | | |
| 6084 | 344 | 82/12/10 | 0050:00 | 0051:23 | 226 | 202 | 16925 | | 2 | 191, 5 | |
| 6085 | 344 | 82/12/10 | 0115:26 | 0115:57 | 736 | 323 | 32114 | | 2 | 191, 5 | M5 |
| 6086 | 344 | 82/12/10 | 0131:16 | 0131:29 | 24 | 68 | | | 2 | | |
| 6087 | 344 | 82/12/10 | 0236:12 | 0240:55 | 1798 | 3311 | 5.66E+05 | | 5 | 191, 6 | M5 |
| 6088 | 344 | 82/12/10 | 1316:20 | 1320:49 | 441 | 211 | 28070 | | 2 | 191, 7 | ES |
| 6089 | 344 | 82/12/10 | 1349:32 | 1350:49 | 145 | 98 | | | 2 | | |
| 6090 | 344 | 82/12/10 | 1525:35 | 1526:36 | 71 | 121 | | | 2 | 191, 8 | SG, DG, EG |
| 6091 | 344 | 82/12/10 | 1532:55 | 1535:02 | 196 | 64 | | | 2 | | |
| 6092 | 344 | 82/12/10 | 1815:40 | 1816:49 | 445 | 480 | 51354 | | 3 | 191, 9 | |
| 6093 | 344 | 82/12/10 | 1929:35 | 1931:14 | 196 | 72 | | | 2 | | |
| 6094 | 344 | 82/12/10 | 2113:31 | 2115:53 | 715 | 83 | | | 2 | | |
| 6095 | 344 | 82/12/10 | 2253:11 | 2253:20 | 22 | 116 | 601 | | 2 | 191, 10 | |
| 6096 | 345 | 82/12/11 | 0020:39 | 0020:57 | 31 | 74 | | | 2 | | |
| 6097 | 345 | 82/12/11 | 0022:38 | 0023:23 | 81 | 68 | | | 2 | | |
| 6098 | 345 | 82/12/11 | 0030:31 | 0031:21 | 482 | 126 | 5393 | | 2 | 191, 11 | |

ORIGINAL DATA
OF POOR QUALITY

134

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------------|
| 6099 | 345 | 82/12/11 | 0048:48 | 0049:23 | 69 | 196 | 1602 | | 3 | 191, 12 | |
| 6100 | 345 | 82/12/11 | 0113:51 | 0114:21 | 40 | 73 | | | 2 | | EN |
| 6101 | 345 | 82/12/11 | 0219:58 | 0226:04 | 662 | 100 | 6519 | | 2 | 191, 13 | |
| 6102 | 345 | 82/12/11 | 0235:51 | 0248:19 | 931 | 174 | 9985 | | 4 | 191, 13 | |
| 6103 | 345 | 82/12/11 | 0543:48 | 0544:29 | 107 | 518 | 5931 | | 3 | 191, 14 | |
| 6104 | 345 | 82/12/11 | 1444:24 | 1445:44 | 266 | 179 | 6023 | | 2 | 191, 15 | |
| 6105 | 345 | 82/12/11 | 1824:29 | 1826:35 | 177 | 92 | | | 2 | | |
| 6106 | 345 | 82/12/11 | 1956:29 | 1956:47 | 76 | 79 | | | 2 | | ND |
| 6107 | 345 | 82/12/11 | 2101:57 | 2102:48 | 89 | 75 | | | 2 | | ND |
| 6108 | 345 | 82/12/11 | 2131:28 | 2131:45 | 143 | 86 | | | 6 | | AX,ND |
| 6109 | 345 | 82/12/11 | 2305:53 | 2306:11 | 33 | 71 | | | 2 | | |
| 6110 | 345 | 82/12/11 | 2314:14 | 2315:05 | 180 | 96 | | | 2 | | |
| 6111 | 346 | 82/12/12 | 1546:42 | 1546:54 | 27 | 69 | | | 2 | | |
| 6112 | 346 | 82/12/12 | 1607:36 | 1607:54 | 29 | 68 | | | 2 | | |
| 6113 | 346 | 82/12/12 | 1800:38 | 1800:54 | 51 | 58 | | | 2 | | |
| 6114 | 346 | 82/12/12 | 2343:11 | 2344:14 | 176 | 84 | | | 3 | | AX |
| 6115 | 347 | 82/12/13 | 0139:26 | 0139:37 | 68 | 83 | | | 2 | | DG |
| 6116 | 347 | 82/12/13 | 0320:52 | 0325:43 | 1602 | 12464 | 1.64E+06 | | 15 | 191, 16 | M5 |
| 6117 | 347 | 82/12/13 | 0657:20 | 0657:35 | 40 | 57 | | | 2 | | |
| 6118 | 347 | 82/12/13 | 0802:43 | 0807:08 | 823 | 2807 | 3.49E+05 | | 10 | | M5 |
| 6119 | 347 | 82/12/13 | 1134:36 | 1134:56 | 30 | 81 | | | 2 | | |
| 6120 | 347 | 82/12/13 | 1743:57 | 1744:19 | 37 | 87 | | | 2 | | |
| 6121 | 348 | 82/12/14 | 0000:17 | 0000:38 | 94 | 88 | | | 2 | | |
| 6122 | 348 | 82/12/14 | 0735:45 | 0739:41 | 372 | 182 | 6787 | | 4 | 192, 1 | DG |
| 6123 | 348 | 82/12/14 | 1347:25 | 1347:48 | 34 | 87 | | | 2 | | |
| 6124 | 349 | 82/12/15 | 1626:19 | 1632:40 | 1465 | 81391 | 1.32E+07 | | 13 | 199, 2 | |
| 6125 | 349 | 82/12/15 | 1702:43 | 1704:48 | 518 | 124 | 7241 | | 2 | 199, 2 | |
| 6126 | 349 | 82/12/15 | 2143:50 | 2151:31 | 1608 | 5165 | 8.98E+05 | | 8 | 192, 2 | |
| 6127 | 350 | 82/12/16 | 1220:21 | 1220:59 | 71 | 81 | | | 2 | | |
| 6128 | 350 | 82/12/16 | 1451:59 | 1502:12 | 2521 | 8678 | 3.71E+06 | | 10 | 192, 3 | M5,DG |
| 6129 | 350 | 82/12/16 | 1616:11 | 1621:13 | 463 | 125 | 14435 | | 3 | 192, 4 | AX |
| 6130 | 350 | 82/12/16 | 1632:10 | 1633:51 | 469 | 69 | 3067 | | 2 | 192, 4 | |
| 6131 | 350 | 82/12/16 | 1923:49 | 1928:16 | 822 | 269 | 26051 | | 2 | 192, 5 | |
| 6132 | 350 | 82/12/16 | 2309:47 | 2310:19 | 139 | 155 | 3434 | | 2 | 192, 6 | |
| 6133 | 350 | 82/12/16 | 2314:02 | 2314:16 | 41 | 69 | | | 2 | | |
| 6134 | 350 | 82/12/16 | 2316:01 | 2316:19 | 48 | 76 | | | 2 | | |
| 6135 | 351 | 82/12/17 | 0002:59 | 0003:18 | 54 | 448 | 3892 | | 3 | 192, 7 | |
| 6136 | 351 | 82/12/17 | 0007:39 | 0007:54 | 45 | 103 | 762 | | 2 | 192, 7 | |
| 6137 | 351 | 82/12/17 | 0144:24 | 0145:55 | 1099 | 3596 | 3.46E+05 | | 9 | 192, 8 | M5 |
| 6138 | 351 | 82/12/17 | 0219:57 | 0221:32 | 538 | 190 | 13240 | | 2 | 192, 8 | |
| 6139 | 351 | 82/12/17 | 0519:06 | 0519:39 | 144 | 430 | 14304 | | 4 | 192, 9 | |
| 6140 | 351 | 82/12/17 | 0850:14 | 0850:20 | 25 | 83 | | | 2 | | |
| 6141 | 351 | 82/12/17 | 1000:26 | 1002:30 | 717 | 907 | 69234 | | 3 | 192, 10 | |
| 6142 | 351 | 82/12/17 | 1202:25 | 1202:34 | 23 | 101 | | | 3 | | |
| 6143 | 351 | 82/12/17 | 1441:30 | 1441:37 | 23 | 110 | 429 | | 2 | 192, 11 | |
| 6144 | 351 | 82/12/17 | 1643:25 | 1645:13 | 167 | 70 | | | 2 | | |
| 6145 | 351 | 82/12/17 | 1818:49 | 1819:31 | 86 | 62 | | | 2 | | |
| 6146 | 351 | 82/12/17 | 1854:40 | 1857:10 | 4059 | 108043 | 1.51E+07 | | 15 | 199, 3 | M5,SN,DG,EN |
| 6147 | 351 | 82/12/17 | 2031:32 | 2032:00 | 231 | 149 | 7663 | | 2 | 192, 12 | |
| 6148 | 351 | 82/12/17 | 2103:52 | 2106:30 | 1298 | 408 | 1.33E+05 | | 5 | 192, 13 | |
| 6149 | 351 | 82/12/17 | 2240:01 | 2246:40 | 254 | 127 | 48173 | | 2 | 192, 14 | EG |
| 6150 | 352 | 82/12/18 | 0303:07 | 0303:28 | 65 | 133 | 1006 | | 2 | 192, 15 | |
| 6151 | 352 | 82/12/18 | 0304:21 | 0304:26 | 21 | 104 | 370 | | 2 | 192, 15 | |

ORIGINAL LISTING OF POOR QUALITY

135

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 6152 | 352 | 82/12/18 | 0817:31 | 0822:02 | 1241 | 19095 | 1.56E+06 | | 10 | 192, 16 | MS,ND |
| 6153 | 352 | 82/12/18 | 1752:30 | 1752:41 | 38 | 79 | | | 2 | | |
| 6154 | 352 | 82/12/18 | 1922:08 | 1922:19 | 28 | 100 | | | 2 | | |
| 6155 | 352 | 82/12/18 | 2017:01 | 2017:22 | 77 | 73 | | | 2 | | |
| 6156 | 352 | 82/12/18 | 2049:02 | 2051:04 | 160 | 71 | | | 4 | | |
| 6157 | 352 | 82/12/18 | 2248:02 | 2248:58 | 93 | 168 | 3112 | | 2 | 193, 1 | ES |
| 6158 | 352 | 82/12/18 | 2328:45 | 2329:30 | 76 | 72 | | | 2 | | |
| 6159 | 352 | 82/12/18 | 2350:30 | 2350:50 | 72 | 110 | 1324 | | 2 | 193, 2 | |
| 6160 | 353 | 82/12/19 | 0020:44 | 0021:01 | 42 | 64 | | | 2 | | |
| 6161 | 353 | 82/12/19 | 0133:23 | 0136:09 | 532 | 413 | 60072 | | 4 | 193, 3 | |
| 6162 | 353 | 82/12/19 | 0142:51 | 0143:32 | 99 | 228 | 5071 | | 4 | 193, 3 | |
| 6163 | 353 | 82/12/19 | 0622:00 | 0622:12 | 38 | 87 | | | 2 | | |
| 6164 | 353 | 82/12/19 | 0948:17 | 0949:00 | 228 | 380 | 6660 | | 3 | 193, 4 | IG |
| 6165 | 353 | 82/12/19 | 1128:13 | 1128:28 | 70 | 117 | 640 | | 2 | 193, 5 | |
| 6166 | 353 | 82/12/19 | 1130:47 | 1130:54 | 23 | 70 | | | 2 | | |
| 6167 | 353 | 82/12/19 | 1207:39 | 1208:00 | 48 | 76 | | | 2 | | |
| 6168 | 353 | 82/12/19 | 1347:45 | 1348:35 | 135 | 155 | 4606 | | 2 | 193, 6 | ND |
| 6169 | 353 | 82/12/19 | 1432:56 | 1433:11 | 65 | 64 | | | 2 | | |
| 6170 | 353 | 82/12/19 | 1537:57 | 1540:16 | 170 | 112 | 1942 | | 2 | 193, 7 | |
| 6171 | 353 | 82/12/19 | 1542:51 | 1543:52 | 151 | 76 | | | 2 | | |
| 6172 | 353 | 82/12/19 | 1549:28 | 1648:45 | 6668 | 304 | 1.36E+05 | | 2 | 199, 4 | IN |
| 6173 | 353 | 82/12/19 | 1918:16 | 1918:31 | 159 | 63 | | | 2 | | |
| 6174 | 353 | 82/12/19 | 2018:56 | 2019:10 | 108 | 534 | 13739 | | 5 | 193, 8 | |
| 6175 | 353 | 82/12/19 | 2038:18 | 2038:55 | 122 | 73 | | | 2 | | |
| 6176 | 354 | 82/12/20 | 0102:02 | 0102:15 | 20 | 99 | | | 2 | | |
| 6177 | 354 | 82/12/20 | 0550:22 | 0550:35 | 32 | 75 | | | 2 | | |
| 6178 | 354 | 82/12/20 | 0617:37 | 0619:04 | 130 | 76 | | | 2 | | |
| 6179 | 354 | 82/12/20 | 0723:58 | 0724:10 | 60 | 116 | 1044 | | 2 | 193, 9 | |
| 6180 | 354 | 82/12/20 | 0925:21 | 0925:27 | 18 | 65 | | | 2 | | |
| 6181 | 354 | 82/12/20 | 1246:58 | 1247:35 | 195 | 72 | | | 2 | | |
| 6182 | 354 | 82/12/20 | 1634:11 | 1634:41 | 173 | 70 | | | 2 | | |
| 6183 | 354 | 82/12/20 | 1703:01 | 1706:42 | 332 | 169 | 15647 | | 2 | 193, 10 | |
| 6184 | 355 | 82/12/21 | 0211:35 | 0212:51 | 415 | 1193 | 87310 | | 7 | 193, 11 | |
| 6185 | 355 | 82/12/21 | 0421:49 | 0423:42 | 139 | 77 | | | 2 | | |
| 6186 | 355 | 82/12/21 | 0432:54 | 0434:20 | 173 | 88 | | | 2 | | |
| 6187 | 355 | 82/12/21 | 0544:47 | 0545:49 | 125 | 99 | | | 2 | | |
| 6188 | 355 | 82/12/21 | 0559:17 | 0559:46 | 57 | 103 | 829 | | 2 | 193, 12 | |
| 6189 | 355 | 82/12/21 | 0605:36 | 0605:55 | 45 | 64 | | | 2 | | |
| 6190 | 355 | 82/12/21 | 0612:27 | 0613:17 | 79 | 115 | 1920 | | 2 | 193, 12 | |
| 6191 | 355 | 82/12/21 | 1445:02 | 1445:11 | 67 | 67 | | | 2 | | |
| 6192 | 355 | 82/12/21 | 1748:48 | 1749:08 | 28 | 73 | | | 2 | | |
| 6193 | 355 | 82/12/21 | 1926:43 | 1927:42 | 113 | 96 | | | 2 | | |
| 6194 | 355 | 82/12/21 | 2247:04 | 2247:55 | 80 | 82 | | | 2 | | |
| 6195 | 355 | 82/12/21 | 2308:04 | 2309:07 | 124 | 155 | 11088 | | 5 | 193, 13 | |
| 6196 | 356 | 82/12/22 | 0207:07 | 0208:33 | 144 | 100 | | | 2 | | |
| 6197 | 356 | 82/12/22 | 0211:52 | 0211:29 | 37 | 67 | | | 2 | | |
| 6198 | 356 | 82/12/22 | 0218:41 | 0219:05 | 81 | 195 | 3440 | | 2 | 193, 14 | |
| 6199 | 356 | 82/12/22 | 0643:49 | 0644:04 | 53 | 117 | 1148 | | 2 | 193, 15 | |
| 6200 | 356 | 82/12/22 | 1616:41 | 1618:31 | 200 | 83 | | | 2 | | ND, DG |
| 6201 | 356 | 82/12/22 | 1757:36 | 1758:06 | 100 | 63 | | | 2 | | |
| 6202 | 356 | 82/12/22 | 2241:19 | 2241:58 | 124 | 64 | | | 2 | | |
| 6203 | 357 | 82/12/23 | 1019:19 | 1019:52 | 59 | 66 | | | 2 | | |
| 6204 | 358 | 82/12/24 | 0124:23 | 0124:47 | 78 | 69 | | | 2 | | |

| HRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|---------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------|
| 6205 | 358 | 82/12/24 | 1305:45 | 1306:07 | 59 | 72 | | | | | |
| 6206 | 358 | 82/12/24 | 1310:23 | 1310:33 | 19 | 82 | | | 2 | | |
| 6207 | 358 | 82/12/24 | 1312:43 | 1313:05 | 125 | 61 | | | 2 | | |
| 6208 | 358 | 82/12/24 | 2153:31 | 2153:45 | 58 | 88 | | | 2 | | |
| 6209 | 359 | 82/12/25 | 1250:42 | 1251:29 | 57 | 123 | 1561 | | 2 | 193, 16 | |
| 6210 | 359 | 82/12/25 | 1658:27 | 1658:47 | 80 | 89 | | | 2 | | |
| 6211 | 359 | 82/12/25 | 1707:28 | 1707:47 | 50 | 62 | | | 2 | | |
| 6212 | 359 | 82/12/25 | 2132:24 | 2132:39 | 34 | 76 | | | 2 | | |
| 6213 | 360 | 82/12/26 | 0102:21 | 0102:31 | 143 | 65 | | | 2 | | |
| 6214 | 360 | 82/12/26 | 1039:42 | 1040:06 | 100 | 341 | 3385 | | 4 | 194, 1 | |
| 6215 | 360 | 82/12/26 | 1143:29 | 1143:56 | 33 | 90 | | | 2 | | |
| 6216 | 360 | 82/12/26 | 1159:19 | 1159:39 | 67 | 80 | | | 2 | | |
| 6217 | 360 | 82/12/26 | 1506:08 | 1510:03 | 485 | 160 | 79027 | | 3 | 194, 2 | |
| 6218 | 361 | 82/12/27 | 0019:05 | 0019:22 | 48 | 84 | | | 2 | | |
| 6219 | 361 | 82/12/27 | 0159:30 | 0159:59 | 41 | 98 | | | 2 | | |
| 6220 | 361 | 82/12/27 | 0523:44 | 0524:21 | 376 | 375 | 28212 | | 5 | 194, 3 | |
| 6221 | 361 | 82/12/27 | 0533:47 | 0534:15 | 38 | 62 | | | 2 | | |
| 6222 | 361 | 82/12/27 | 0814:59 | 0815:21 | 61 | 83 | | | 2 | | |
| 6223 | 362 | 82/12/28 | 0306:03 | 0306:46 | 87 | 62 | | | 2 | | |
| 6224 | 362 | 82/12/28 | 0834:13 | 0834:45 | 55 | 63 | | | 2 | | |
| 6225 | 362 | 82/12/28 | 0846:23 | 0848:28 | 164 | 60 | | | 2 | | |
| 6226 | 362 | 82/12/28 | 0936:45 | 0937:33 | 82 | 58 | | | 2 | | |
| 6227 | 362 | 82/12/28 | 1556:52 | 1557:58 | 178 | 2287 | 1.33E+05 | | 5 | 194, 4 | M5 |
| 6228 | 363 | 82/12/29 | 0136:29 | 0137:11 | 252 | 183 | 7452 | | 2 | 194, 5 | |
| 6229 | 363 | 82/12/29 | 0950:59 | 0951:12 | 45 | 61 | | | 2 | | |
| 6230 | 363 | 82/12/29 | 1622:15 | 1622:42 | 58 | 113 | 1999 | | 2 | 194, 6 | |
| 6231 | 363 | 82/12/29 | 1727:16 | 1728:31 | 123 | 97 | | | 2 | | |
| 6232 | 363 | 82/12/29 | 2337:16 | 2337:58 | 72 | 128 | 693 | | 2 | 194, 7 | |
| 6233 | 363 | 82/12/29 | 2348:18 | 2348:59 | 138 | 86 | 7462 | | 2 | | |
| 6234 | 364 | 82/12/30 | 0141:15 | 0142:49 | 415 | 6891 | 1.47E+05 | | 11 | 194, 8 | M5, E5 |
| 6235 | 364 | 82/12/30 | 0411:23 | 0411:36 | 46 | 77 | | | 2 | | |
| 6236 | 364 | 82/12/30 | 0603:29 | 0604:02 | 56 | 61 | | | 2 | | |
| 6237 | 364 | 82/12/30 | 1519:20 | 1519:37 | 33 | 70 | | | 2 | | |
| 6238 | 364 | 82/12/30 | 1842:51 | 1945:25 | 234 | 423 | 18821 | | 3 | 194, 9 | SA |
| 6239 | 365 | 82/12/31 | 0246:05 | 0246:15 | 23 | 70 | | | 2 | | |
| 6240 | 365 | 82/12/31 | 1408:48 | 1409:19 | 94 | 64 | | | 3 | | |

HXRBS EVENT LISTING

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|--------------------|
| 6241 | 2 | 83/01/02 | 0155:45 | 0158:29 | 399 | 645 | 55266 | | 2 | 194, 10 | |
| 6242 | 5 | 83/01/05 | 1321:37 | 1322:45 | 162 | 71 | | | 2 | | |
| 6252 | 7 | 83/01/07 | 0204:56 | 0206:03 | 201 | 688 | 16380 | | 7 | 194, 15 | |
| * 6251 | 7 | 83/01/07 | 0516:02 | 0516:19 | 29 | 200 | | | 5 | | ND |
| 6253 | 9 | 83/01/09 | 1835:43 | 1836:05 | 45 | 451 | 4444 | | 4 | 194, 16 | |
| 6254 | 10 | 83/01/10 | 0549:00 | 0549:23 | 54 | 57 | | | 2 | | |
| 6255 | 10 | 83/01/10 | 0551:41 | 0557:48 | 417 | 105 | 8503 | | 4 | 195, 1 | |
| 6256 | 10 | 83/01/10 | 0733:29 | 0734:33 | 388 | 217 | 12916 | | 5 | 195, 2 | |
| 6257 | 10 | 83/01/10 | 0913:08 | 0913:51 | 183 | 64 | | | 2 | | |
| 6258 | 12 | 83/01/12 | 0828:24 | 0828:40 | 61 | 81 | | | 9 | | AX |
| 6259 | 12 | 83/01/12 | 1910:03 | 1910:43 | 80 | 77 | | | 2 | | |
| 6260 | 15 | 83/01/15 | 0054:14 | 0054:30 | 90 | 86 | | | 2 | | |
| 6261 | 23 | 83/01/23 | 0038:46 | 0039:26 | 114 | 59 | | | 2 | | |
| 6262 | 24 | 83/01/24 | 0019:55 | 0020:02 | 59 | 91 | | | 3 | | |
| 6263 | 28 | 83/01/28 | 1434:10 | 1434:34 | 41 | 76 | | | 2 | | |
| 6264 | 29 | 83/01/29 | 1646:23 | 1646:59 | 64 | 53 | | | 2 | | |
| 6265 | 31 | 83/01/31 | 0105:40 | 0105:59 | 35 | 73 | | | 2 | | |
| 6266 | 31 | 83/01/31 | 1142:26 | 1143:44 | 92 | 61 | | | 2 | | |
| 6267 | 32 | 83/02/01 | 0401:30 | 0401:46 | 39 | 77 | | | 2 | | |
| 6268 | 32 | 83/02/01 | 1924:43 | 1924:52 | 18 | 82 | | | 2 | | |
| 6304 | 32 | 83/02/01 | 2205:57 | 2207:20 | 136 | 117 | 2925 | | 2 | 195, 16 | |
| 6270 | 34 | 83/02/03 | 0550:25 | 0603:37 | 7389 | 46354 | 1.51E+07 | | 15 | 199, 5 | MS, SA, DG, IN, IS |
| 6271 | 34 | 83/02/03 | 1828:23 | 1828:43 | 65 | 85 | | | 2 | | |
| 6272 | 34 | 83/02/03 | 1829:49 | 1829:59 | 55 | 141 | 1377 | | 2 | 195, 4 | |
| 6273 | 34 | 83/02/03 | 1830:44 | 1832:16 | 331 | 359 | 16595 | | 2 | 195, 4 | |
| 6275 | 35 | 83/02/04 | 1104:56 | 1106:02 | 131 | 60 | | | 2 | | |
| 6276 | 36 | 83/02/05 | 0035:37 | 0036:41 | 100 | 64 | | | 2 | | |
| 6277 | 36 | 83/02/05 | 0152:22 | 0153:44 | 295 | 186 | 7661 | | 3 | 195, 6 | SA |
| 6278 | 36 | 83/02/05 | 0700:22 | 0701:33 | 197 | 405 | 11369 | | 3 | 195, 7 | |
| 6279 | 36 | 83/02/05 | 1027:34 | 1027:42 | 53 | 60 | | | 2 | | |
| 6280 | 36 | 83/02/05 | 1337:07 | 1340:19 | 465 | 81 | 6709 | | 2 | 195, 8 | |
| 6281 | 36 | 83/02/05 | 1449:07 | 1450:13 | 102 | 93 | | | 5 | | |
| 6282 | 36 | 83/02/05 | 1803:43 | 1805:26 | 126 | 43 | | | 2 | | |
| 6283 | 36 | 83/02/05 | 1806:19 | 1807:34 | 172 | 67 | | | 3 | | |
| 6284 | 36 | 83/02/05 | 1811:08 | 1812:21 | 121 | 76 | | | 3 | | |
| 6285 | 36 | 83/02/05 | 1813:31 | 1814:09 | 104 | 69 | | | 2 | | |
| 6286 | 37 | 83/02/06 | 0508:43 | 0509:13 | 60 | 54 | | | 2 | | |
| 6287 | 37 | 83/02/06 | 0512:42 | 0513:05 | 62 | 60 | | | 2 | | |
| 6288 | 37 | 83/02/06 | 0527:00 | 0528:05 | 147 | 77 | | | 2 | | |
| 6289 | 37 | 83/02/06 | 1430:54 | 1431:26 | 64 | 300 | 6276 | | 7 | 195, 9 | |
| 6290 | 37 | 83/02/06 | 1501:38 | 1502:25 | 41 | 59 | | | 2 | | |
| 6291 | 37 | 83/02/06 | 1609:25 | 1610:09 | 77 | 96 | | | 5 | | |
| 6292 | 37 | 83/02/06 | 1735:54 | 1747:44 | 1025 | 82 | 6635 | | 2 | 195, 10 | |
| 6294 | 40 | 83/02/09 | 1332:07 | 1332:34 | 53 | 92 | | | 8 | | AX |
| 6295 | 40 | 83/02/09 | 1506:58 | 1510:35 | 466 | 138 | 12400 | | 8 | 195, 12 | AX |
| 6296 | 41 | 83/02/10 | 1220:29 | 1220:45 | 52 | 149 | 740 | | 5 | 195, 13 | |
| 6297 | 43 | 83/02/12 | 1316:44 | 1317:15 | 79 | 106 | 2338 | | 5 | 195, 14 | AX |
| 6298 | 45 | 83/02/14 | 0929:58 | 0931:16 | 188 | 68 | | | 3 | | AX |
| 6301 | 60 | 83/03/01 | 1046:14 | 1046:37 | 119 | 306 | 5438 | | 3 | 195, 15 | |
| 6302 | 60 | 83/03/01 | 1316:40 | 1317:14 | 199 | 72 | | | 2 | | |
| 6303 | 60 | 83/03/01 | 1951:14 | 1951:29 | 54 | 69 | | | 2 | | |

ORIGINAL PAGE IS
OF POOR QUALITY

138

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|-------|
| 6309 | 62 | 83/03/03 | 2220:00 | 2220:47 | 165 | 84 | | | 6 | | AX |
| 6315 | 65 | 83/03/06 | 0209:50 | 0211:05 | 164 | 94 | | | 4 | | AX |
| 6334 | 67 | 83/03/08 | 2253:10 | 2254:14 | 147 | 76 | | | 4 | | |
| 6335 | 68 | 83/03/09 | 0010:21 | 0011:38 | 210 | 67 | | | 2 | | |
| 6336 | 69 | 83/03/10 | 0006:23 | 0008:37 | 675 | 171 | 21026 | | 2 | 196, 7 | |
| 6340 | 71 | 83/03/12 | 2128:22 | 2129:31 | 134 | 72 | | | 4 | | AX |
| 6341 | 72 | 83/03/13 | 0006:42 | 0007:10 | 73 | 69 | | | 4 | | AX |
| 6347 | 73 | 83/03/14 | 2008:17 | 2009:09 | 174 | 69 | | | 4 | | |
| 6348 | 73 | 83/03/14 | 2013:34 | 2013:54 | 71 | 57 | | | 3 | | |
| 6349 | 73 | 83/03/14 | 2046:32 | 2047:38 | 105 | 52 | | | 4 | | |
| 6350 | 73 | 83/03/14 | 2050:08 | 2051:01 | 89 | 64 | | | 10 | | |
| 6351 | 73 | 83/03/14 | 2143:10 | 2150:36 | 505 | 71 | 7817 | | 4 | 196, 11 | |
| 6363 | 75 | 83/03/16 | 2158:59 | 2200:03 | 157 | 84 | | | 2 | | |
| 6370 | 76 | 83/03/17 | 0223:08 | 0223:50 | 889 | 161 | 20988 | | 2 | 196, 15 | |
| 6371 | 76 | 83/03/17 | 0722:18 | 0723:52 | 192 | 99 | | | 2 | | DG |
| 6372 | 76 | 83/03/17 | 0900:11 | 0900:48 | 254 | 403 | 26256 | | 2 | 196, 16 | EN |
| 6373 | 76 | 83/03/17 | 1333:56 | 1334:48 | 445 | 856 | 56328 | | 4 | 197, 1 | |
| 6374 | 76 | 83/03/17 | 1457:50 | 1458:59 | 131 | 63 | 836 | | 2 | | |
| 6375 | 77 | 83/03/18 | 0049:48 | 0050:40 | 102 | 106 | 3022 | | 2 | 197, 2 | |
| 6376 | 77 | 83/03/18 | 0152:46 | 0153:45 | 687 | 154 | 13264 | | 2 | 197, 3 | |
| 6377 | 77 | 83/03/18 | 0806:45 | 0807:25 | 253 | 149 | 7328 | | 2 | 197, 4 | |
| 6368 | 77 | 83/03/18 | 1852:20 | 1853:26 | 183 | 61 | | | 2 | | |
| 6369 | 77 | 83/03/18 | 1924:01 | 1924:53 | 201 | 65 | | | 3 | | |
| 6378 | 79 | 83/03/20 | 1210:34 | 1210:46 | 31 | 52 | 245 | | 2 | | |
| 6380 | 80 | 83/03/21 | 2016:26 | 2016:51 | 51 | 65 | | | 2 | | |
| 6381 | 80 | 83/03/21 | 2123:36 | 2124:16 | 91 | 62 | | | 2 | | |
| 6382 | 81 | 83/03/22 | 0156:35 | 0156:49 | 22 | 62 | | | 2 | | |
| 6383 | 82 | 83/03/23 | 0125:17 | 0125:53 | 176 | 70 | | | 2 | | |
| 6385 | 84 | 83/03/25 | 0242:28 | 0242:53 | 46 | 63 | | | 2 | | |
| 6386 | 84 | 83/03/25 | 0245:08 | 0247:41 | 480 | 86 | 6532 | | 2 | 197, 6 | |
| 6387 | 84 | 83/03/25 | 0608:08 | 0608:13 | 19 | 80 | | | 2 | | |
| 6388 | 84 | 83/03/25 | 1015:40 | 1016:59 | 200 | 75 | | | 4 | | AX |
| 6392 | 90 | 83/03/31 | 0025:31 | 0025:48 | 25 | 85 | | | 5 | | |
| 6393 | 94 | 83/04/04 | 1034:02 | 1034:40 | 126 | 181 | 4410 | | 3 | 197, 10 | |

AX = POSSIBLE FALSE FLARE CAUSED BY CHARGED PARTICLES
DG = DATA GAPS
EG = EVENT ENDS IN DATA GAP
EN = EVENT ENDS AT NIGHT
ES = EVENT ENDS IN SAA
SN = EVENT STARTS AT NIGHT
I = FLARE FOUND FROM IPD TAPES
IN = FLARE INTERRUPTED BY NIGHT
IS = FLARE INTERRUPTED BY SAA
M = MEMORY DUMP WITH 10MS TIME RESOLUTION
M1 = MEMORY DUMP WITH 5MS TIME RESOLUTION
M5 = MEMORY DUMP WITH 1MS TIME RESOLUTION
ND = NOISY DATA
SA = EVENT STARTS IN SOUTH ATLANTIC ANOMALY(SAA)
SG = EVENT STARTS IN DATA GAP

*308 NON-SOLAR GAMMA RAY BURST

*318 NON-SOLAR GAMMA RAY BURST

*1219-1225 TIMES ON ARCHIVE LOW BY 4:30 .TIMES ARE CORRECT ON THIS LISTING

*2203-2240 GAIN CHANGE FOR THESE EVENTS ONLY AS FOLLOWS:

*2203-2209 ENERGY RANGE 12.6 KEV TO 194 KEV

*2210-2213 ENERGY RANGE 106 KEV TO 1328 KEV

*2214-2240 ENERGY RANGE 43 KEV TO 789 KEV

*3077-3086 TIME HIGH BY 24 DAYS 2031:24.906 ON ARCHIVE & FLARE TAPES ONLY

*3568-3618 TIMES LOW BY 3.072 SEC ON ARCHIVE TAPES FROM 81/09/14 TO 81/09/20

*5053-5439 TIMES HIGH BY 5.12 SEC ON ARCHIVE TAPES FROM 82/04/27 TO 82/06/22

*6251 GAIN CHANGE FOR THIS EVENT ONLY, ENERGY RANGE 13.6 TO 209 KEV.

*6017 DURATION > 12443 SEC

TABS,3,21,29,34,41,49,55,58,65,68

STOPS 11,29,37,42,49,57,63,66,73,76

LISTING
OF ALL HXRBS EVENTS WITH A
PEAK RATE > 10,000 COUNTS/S.

2 February 1980 to 11 April 1983

HXRBS EVENT LISTING

ORIGINAL DATA IS
OF POOR QUALITY

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HHMM:SS | PEAK TIME HHMM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|--------------------------|-------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|------------|
| 87 | 89 | 80/03/29 | 0917:00 | 0918:13 | 210 | 19000 | 2.50E+05 | 2363 | 15 | 6, 10 | M |
| 295 | 106 | 80/04/15 | 1508:00 | 1510:25 | 700 | 19000 | 9.50E+05 | 2389 | 11 | 14, 16 | M |
| 375 | 119 | 80/04/28 | 2039:35 | 2040:00 | 254 | 10964 | 1.17E+05 | | 15 | 17, 2 | OG |
| 479 | 130 | 80/05/09 | 0711:05 | 0712:35 | 635 | 10800 | 6.94E+05 | 2418 | 15 | 20, 1 | M |
| 538 | 142 | 80/05/21 | 2053:35 | 2055:53 | 2376 | 14300 | 3.01E+06 | | 15 | 21, 7 | M, ES |
| 634 | 156 | 80/06/04 | 0653:56 | 0654:37 | 279 | 35200 | 1.37E+06 | | 15 | 25, 3 | |
| 688 | 159 | 80/06/07 | 0310:51 | 0312:15 | 691 | 39391 | 1.33E+06 | 2495 | 15 | 27, 4 | M |
| 762 | 173 | 80/06/21 | 0112:40 | 0118:40 | 1352 | 141391 | 4.14E+06 | | 15 | 30, 3 | |
| 877 | 183 | 80/07/01 | 1624:59 | 1627:29 | 831 | 27235 | 2.60E+06 | | 15 | 35, 1 | M |
| 1022 | 203 | 80/07/21 | 0253:43 | 0256:13 | 612 | 12443 | 7.99E+05 | | 15 | 40, 7 | M |
| 1210 | 248 | 80/09/04 | 0155:05 | 0201:20 | 795 | 12860 | 1.11E+06 | | 10 | 46, 11 | |
| 1311 | 283 | 80/10/09 | 1123:25 | 1124:55 | 1440 | 26608 | 1.83E+06 | 2726 | 5 | 50, 1 | |
| 1374 | 288 | 80/10/14 | 0557:50 | 0608:55 | 2110 | 39583 | | | 15 | 52, 6 | M |
| 1534 | 310 | 80/11/05 | 2232:10 | 2233:05 | 350 | 12730 | 4.61E+05 | | 10 | 57, 6 | |
| 1543 | 311 | 80/11/06 | 0324:10 | 0348:00 | 7395 | 155347 | 7.39E+07 | | 15 | 202, 2 | IS, IN, EN |
| 1563 | 312 | 80/11/07 | 0134:55 | 0204:55 | 2170 | 86574 | 1.18E+07 | | 15 | 58, 8 | M, EN |
| 1661 | 317 | 80/11/12 | 0445:50 | 0452:00 | 1045 | 50219 | 4.17E+06 | | 15 | 61, 15 | M, EN |
| 1702 | 320 | 80/11/15 | 1516:15 | 1543:30 | 2860 | 12939 | 5.65E+06 | | 10 | 63, 5 | M |
| 1943 | 25 | 81/01/25 | 0744:15 | 0747:00 | 551 | 31930 | 2.35E+06 | | 10 | 72, 2 | M |
| 1968 | 28 | 81/01/28 | 0409:35 | 0413:20 | 1101 | 10450 | 1.08E+06 | | 12 | 72, 15 | M |
| 5844 | 51 | 81/02/20 | 0639:03 | 0645:51 | 2036 | 25356 | 5.90E+06 | | 9 | 185, 10 | M, I |
| 2137 | 55 | 81/02/24 | 1932:45 | 1936:35 | 607 | 19518 | 3.43E+06 | | 15 | 78, 15 | M, EN |
| 2153 | 57 | 81/02/26 | 1423:10 | 1425:55 | 497 | 22521 | 9.58E+05 | | 15 | 79, 6 | M |
| 2293 | 91 | 81/04/01 | 0105:40 | 0146:04 | 3140 | 12450 | 7.20E+06 | | 14 | 83, 1 | EN |
| 2299 | 92 | 81/04/02 | 1059:05 | 1106:40 | 985 | 14865 | 2.55E+06 | | 12 | 83, 4 | M |
| 2373 | 100 | 81/04/10 | 1633:40 | 1651:15 | 1360 | 11879 | 3.63E+06 | | 15 | 85, 10 | M |
| 2520 | 114 | 81/04/24 | 0135:50 | 0143:15 | 3342 | 11690 | 4.46E+06 | | 5 | 90, 1 | M, SN |
| 2589 | 117 | 81/04/27 | 0740:55 | 0812:55 | 9052 | 56177 | 4.85E+07 | | 15 | 198, 2 | M |
| 2604 | 124 | 81/05/04 | 0836:40 | 0838:45 | 711 | 19517 | 1.17E+06 | | 14 | 92, 6 | M |
| 2907 | 200 | 81/07/19 | 0506:20 | 0533:50 | 3255 | 34086 | | | 14 | 101, 4 | M, SA, EN |
| 3030 | 207 | 81/07/26 | 1347:35 | 1352:25 | 663 | 56177 | 8.12E+06 | | 15 | 105, 6 | M |
| 3074 | 209 | 81/07/28 | 2009:00 | 2010:00 | 598 | 11321 | 4.95E+05 | | 9 | 106, 8 | M |
| 3193 | 222 | 81/08/10 | 0657:05 | 0658:55 | 579 | 12265 | 4.59E+05 | 3257 | 10 | 110, 5 | |
| 3211 | 224 | 81/08/12 | 0628:50 | 0629:15 | 1498 | 19518 | 2.01E+06 | 3257 | 5 | 110, 12 | M, SN |
| 3476 | 250 | 81/09/07 | 0509:10 | 0511:40 | 984 | 25878 | 1.39E+06 | | 14 | 119, 12 | |
| 3520 | 253 | 81/09/10 | 0935:35 | 0940:45 | 610 | 28539 | 1.42E+06 | | 11 | 121, 3 | EN |
| * 3584 | 258 | 81/09/15 | 2110:15 | 2114:40 | 931 | 28212 | 3.10E+06 | | 15 | 122, 14 | EN |
| 3659 | 280 | 81/10/07 | 2241:35 | 2301:35 | 6830 | 33669 | 1.05E+07 | | 15 | 198, 4 | M, ES, DG |
| 3695 | 283 | 81/10/10 | 1247:30 | 1248:35 | 516 | 11434 | 3.10E+05 | | 7 | 125, 15 | M |
| 3726 | 285 | 81/10/12 | 1034:30 | 1100:00 | 1896 | 12464 | 2.85E+06 | | 5 | 127, 4 | M, SA, EN |
| 3794 | 287 | 81/10/14 | 1703:20 | 1706:30 | 232 | 44179 | 3.34E+06 | | 15 | 128, 11 | EN |
| 4592 | 39 | 82/02/08 | 1249:55 | 1250:00 | 1224 | 31095 | 1.96E+06 | | 15 | 151, 5 | M, SN, SG |
| 4965 | 89 | 82/03/30 | 0521:10 | 0537:14 | 1326 | 18903 | 6.47E+06 | | 15 | 161, 1 | SN |
| * 5189 | 156 | 82/06/05 | 0124:26 | 0128:54 | 1141 | 18017 | 1.04E+06 | | 12 | 167, 9 | M1, DG |
| * 5192 | 156 | 82/06/05 | 0613:31 | 0616:07 | 2120 | 20434 | 3.02E+06 | | 12 | 167, 11 | M1, EN |
| * 5199 | 156 | 82/06/05 | 1519:25 | 1529:18 | 1520 | 10152 | 1.39E+06 | | 5 | 167, 15 | M1 |
| * 5220 | 157 | 82/06/06 | 1636:48 | 1639:21 | 3691 | 60382 | 1.40E+07 | | 9 | 168, 6 | M1, SN, EN |
| * 5344 | 166 | 82/06/15 | 0030:10 | 0030:40 | 1014 | 25304 | 8.50E+05 | | 15 | 172, 1 | M5 |
| * 5356 | 166 | 82/06/15 | 1508:18 | 1512:39 | 621 | 20609 | 1.81E+06 | | 15 | 172, 5 | |
| * 5375 | 168 | 82/06/17 | 1048:19 | 1051:20 | 621 | 13904 | 1.02E+06 | | 10 | 172, 14 | M5 |
| * 5414 | 171 | 82/06/20 | 0112:55 | 0113:32 | 411 | 13670 | 1.48E+05 | | 10 | 174, 1 | M5 |
| 5490 | 190 | 82/07/09 | 2105:38 | 2107:01 | 529 | 57078 | 1.19E+06 | | 15 | 176, 6 | M5 |
| 5580 | 193 | 82/07/12 | 0932:36 | 0945:57 | 7741 | 58007 | 4.10E+07 | | 13 | 178, 11 | M5, SA, EN |

| HXRBS EVENT | DOY | START DATE YY/MM/DD | START TIME HH:MM:SS | PEAK TIME HH:MM:SS | DURATION SEC | PEAK RATE C/S | TOTAL COUNTS | NOAA REGION # | MAX CH. # | FLARE TAPE#, FILE# | NOTES |
|----------------|-----|---------------------------|---------------------------|--------------------------|-----------------|---------------------|-----------------|---------------------|-----------------|--------------------------|----------------|
| 5643 | 198 | 82/07/17 | 0202:13 | 0205:51 | 1189 | 21000 | 1.84E+06 | | 9 | 180, 4 | |
| * 6017 | 330 | 82/11/26 | 0217:52 | 0233:22 | 9999 | 22747 | 4.81E+06 | | 15 | 189, 15 | M5,SG,DG |
| 6060 | 341 | 82/12/07 | 2335:30 | 2352:41 | 3539 | 23654 | 1.80E+07 | | 15 | 190, 13 | M5,SN,EN |
| 6116 | 347 | 82/12/13 | 0320:52 | 0325:43 | 1602 | 12464 | 1.64E+06 | | 15 | 191, 16 | M5 |
| 6124 | 349 | 82/12/15 | 1626:19 | 1632:40 | 1465 | 81391 | 1.32E+07 | | 13 | 199, 2 | |
| 6146 | 351 | 82/12/17 | 1854:40 | 1857:10 | 4059 | 108043 | 1.51E+07 | | 15 | 199, 3 | M5,SN,DG,EN |
| 6152 | 352 | 82/12/18 | 0817:31 | 0822:02 | 1241 | 19095 | 1.56E+06 | | 10 | 192, 16 | M5,ND |
| 6270 | 34 | 83/02/03 | 0550:25 | 0603:37 | 7389 | 46354 | 1.51E+07 | | 15 | 199, 5 | M5,SA,DG,IN,IS |

ORIGINAL PAGE IS
OF POOR QUALITY